

SONY

スペクトル型フローサイトメーター FP7000 & ID7000

Spectral Cell Sorter FP7000



簡便な超多色解析と
6方向ソーティングが可能な
ハイエンドセルソーター

Spectral Cell Analyzer ID7000



FP7000と連携可能な
最大186個の検出器を搭載した
ハイエンドセルアナライザー

スペクトル方式のパイオニア、ソニーならではの

44色以上の超多色解析

マルチ自家蛍光分離

洗練された使いやすさ

Large Particle Sorting Option (新発売) で セルソーター MA900/SH800 がパワーアップ

Cell Sorter MA900



Cell Sorter SH800



スフェロイド・大型細胞・ハイドロゲル・ダブルエマルジョンなどの
直径20～60μm程度の大径の粒子や細胞の分取を可能とする
ソフトウェアオプションを発売しました。

ソニー株式会社

E-mail: cytometry@sony.co.jp Homepage: <https://www.sony.co.jp/LS>



2025

日本免疫学会総会・学術集会記録

第54巻 アクリエひめじ プログラム

2025

日本免疫学会総会・学術集会記録

The 54th Annual Meeting of The Japanese Society for Immunology

第54巻

Program

Arcrea HIMEJI

December 10 - 12, 2025



特定非営利活動法人 日本免疫学会

Proceedings of the Japanese Society for Immunology (JSI)

Vol. 54, 2025

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温度応答性培養器材

UpCell® Flask

CellSeed
Regenerate the Future

酵素フリーでダメージゼロ 免疫細胞の本来の力をそのままに

UpCell®で回収したRAW264.7細胞の膜タンパク質保持量評価

方法

- ① 9.0×10⁵個の細胞をΦ6cmのUpCell®またはTCPSにそれぞれ播種した。
- ② 翌日、器材をインキュベーターから取り出し、UpCell®では温度処理（20℃、30min）、TCPSではトリプシン処理（37℃、5min）またはスクレーパーで細胞を剥離、回収した。
- ③ ウェスタンブロット法を用いてCD11bならびにF4/80を標識、検出した。
- ④ それぞれの全長及び切断された膜タンパク質量をβ-Actin量及びトリプシンで回収した細胞の全長膜タンパク質量で規格化した。

結果

UpCell®で回収したRAW264.7細胞の全長CD11b、F4/80保持量はトリプシン処理で回収した細胞と比較して各々13倍、25倍以上であり、温度処理で細胞が温和に回収できることが示された(図1、2)。

図1. 種々細胞回収法によるCD11bのウェスタンブロット評価

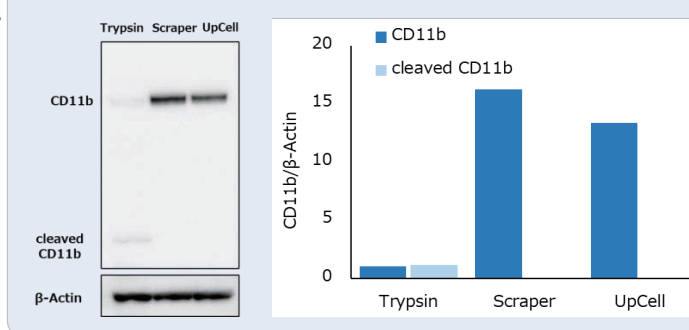
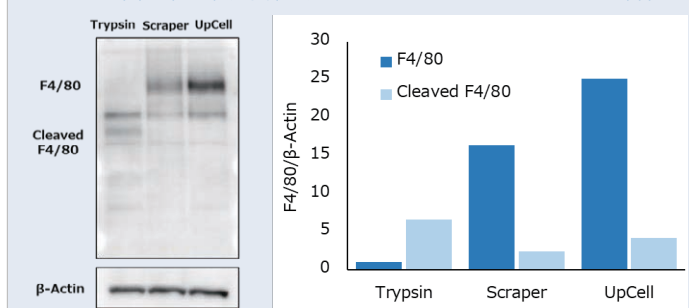


図2. 種々細胞回収法によるF4/80のウェスタンブロット評価



**無料サンプル
受付中！**
下記のQRコードをアクセス

- 樹状細胞やマクロファージなど、表面マーカーを壊さずにインタクトな細胞を回収
- 細胞膜の機能を維持したまま、免疫応答やサイトカイン解析の信頼性を向上
- 大量培養に対応、免疫細胞治療や前臨床モデル構築にも最適なフラスコタイプ

【サンプル・お問合せ】

【製品の詳細】

株式会社セルシード
〒135-0064
東京都江東区青海2-5-10
テレコムセンタービル東棟 15F
Email: sales.ccw@cellseed.com
URL: www.cellseed.com

製品に関するお問い合わせ
または**サンプルのご依頼**は
QRコードよりアクセス下さい



仕様は改良のため予告なく変更することがあります。予めご了承ください。
本製品は医療機器ではなく、研究用に限定しております。
医薬品の製造、品質管理、各種診断、治療および研究など、その使用目的にかかわらず、人体には使用しないでください。

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www.alpalifebio.com

154 Wells Ave, Suite 1D, Newton,
Massachusetts 02459, USA

xinying@alpalifebio.com

lantian@alpalifebio.com

The 54th Annual Meeting of The Japanese Society for Immunology

December 10-12, 2025

Arcrea HIMEJI

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Vice Presidents

Yoshinaga Ito (Kyoto University)

Kenji Kabashima (Kyoto University)

Akio Morinobu (Kyoto University)

Hideki Ueno (Kyoto University)

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(~December 31, 2026)

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Masaaki Murakami

Reiko Shinkura

Osamu Takeuchi*

(~December 31, 2028)

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**The 54th Annual Meeting of the Japanese Society for Immunology
Congress Secretariat**

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E-mail : jsi2025@aeplan.co.jp

複写される方へ

特定非営利活動法人 日本免疫学会では、複写複製、転載複製及び AI 利用に係る著作権を一般社団法人学術著作権協会に委託しています。当該利用をご希望の方は、(社)学術著作権協会 (<https://www.jaacc.org/>) が提供している許諾システムを通じてご申請下さい。

Program of The Japanese Society for Immunology (JSI)

Vol. 54

Contents

General Information for Annual Meeting	1
Conference Program	
Overview Talks (OT01-OT15)	23
Symposia (S01-S15)	29
Workshops (WS01-WS28)	39
Posters (WS01-WS28)	71
Awards Ceremony and Lectures	131
Technical Seminars (T01-T07)	141
Clinical Seminars (C01-C05)	145
Afternoon Seminars (A01-A02)	149
Evening Seminar (E01)	153
Memorial Session for Dr.Fritz Melchers	157
Information for JSI Members	161
Author Index	164
Acknowledgements	177

The 54th Annual Meeting of the Japanese Society for Immunology

Program at a glance

December 10 (Wed.), 2025

Building / Room		Program Room Number	8	30	9	30	10	30	11	30	12	30
2 F	Grand Hall	Room A			OT01 J	S01 Physiological and pathological roles of Innate-like T cells ASI-JSI Joint Session/ Grant-in-Aid for Transformative Research Area (A).Self-referential immune perception co-organized session			E			
	Medium Hall	Room B			OT02 J	S02 Cutting-edge technologies uncovering the immune system and disease mechanisms Co-sponsored by Institute for the Advanced Study of Human Biology (ASHBI)			E			
	Small Hall	Room C			OT03 J	S03 New cancer immunotherapy based on immunosuppression in the tumor microenvironment JACI, JCA co-organized Session / Sponsored by International Immunology			E		C01 AstraZeneca K.K.	J
4 F	407	Room D			OT04 J	S04 The Physiology and Pathology of Human T Cell Aging: Toward Regulation and Regeneration SFI-JSI Joint Session			E		T01 Nippon Becton Dickinson Company, Ltd	J
	408	Room E			OT05 J	S05 Immune systems on the planet			E		T02 TOMY DIGITAL BIOLOGY CO., LTD.	J
	409	Room F	8:30	9:00					11:30		C02 Otsuka Pharmaceutical Co., Ltd.	J
	402-403	Room G								11:40	12:40	
1 F	Exhibition Hall AB	Equipment Exhibition										
		Poster	8:30	Installation								

C | Clinical Seminar

A | Afternoon Seminar

E | Evening Seminar

5

The 54th Annual Meeting of the Japanese Society for Immunology

Program at a glance

December 11 (Thu.), 2025

Building / Room		Program Room Number	8	30	9	30	10	30	11	30	12	30
2 F	Grand Hall	Room A			OT06 J	S06 Biology related with the Thymus ASI-JSI Joint Session/ KTCC Sponsored Session			E			
	Medium Hall	Room B			OT07 J	S07 Decoding Human Immunity in Infectious Diseases KAI-JSI Joint Session			E		C03 Pfizer Japan Inc.	J
	Small Hall	Room C			OT08 J	S08 Innate Immune recognition of nucleic acids and diseases DGfI-JSI Joint Session			E			
4 F	407	Room D			OT09 J	S09 New aspects of TCR recognition of antigen-MHC complex			E		T03 Beckman Coulter K. K.	J
	408	Room E			OT10 J	S10 Basic and Translational Research on Autoimmune Diseases JSI-JCR Joint Session			E		T04 10x Genomics Inc.	J
	409	Room F	8:30	9:00					11:30		C04 argenx Japan K.K.	E
	402-403	Room G								11:40	12:40	
1 F	Exhibition Hall AB	Equipment Exhibition										
		Poster	8:30	Installation								

OT | Overview Talk **S** | Symposium **C** | Clinical Seminar
T | Technical Seminar **WS** | Workshop **A** | Afternoon Seminar
E in English **J** in Japanese **E** | Evening Seminar

13		30		14		30		15		30		16		30		17		30		18		30		19		30		20		30		21					
				Awards Ceremony J & Lectures E				J Memorial Session for Fritz Melchers				WS15 E Tissue-specific T cell biology: Organ-dependent Functions and Diseases								19:00								21:00									
A02 J Nippon Becton Dickinson Company, Ltd.		14:00				15:00				15:30				WS16 E Tumor Immunity - Antigen and receptors																							
12:50		13:50												WS17 E Allergy (I): Orchestrating the Cellular Symphony																							
														WS18 E Organ-specific Immune Diseases																							
														WS19 E Innate immune response by phagocytes																							
														WS20 E Viral infections and Immunity																							
														WS21 E Gastrointestinal Barrier and Immune Regulation				16:55				18:35															

The 54th Annual Meeting of the Japanese Society for Immunology

Program at a glance

December 12 (Fri.), 2025

Building / Room		Program Room Number	8	30	9	30	10	30	11	30	12	30
2 F	Grand Hall	Room A			OT11 J	S11 Current Status and Prospects of Cell Therapy E						
	Medium Hall	Room B			OT12 J	S12 The Allergy Revolution: From Basic Science to Transformative Therapies JSI-JSA Joint Session E						
	Small Hall	Room C			OT13 J	S13 Inflammation and tissue repair regulated by gut myeloid cell subsets and environmental cues DGfI-SFI-JSI Joint Session E					C05 AstraZeneca K.K. J	
4 F	407	Room D			OT14 J	S14 Immune Reaction and Tolerance to Self E					T05 Thermo Fisher Scientific J	
	408	Room E			OT15 J	S15 New trends in vaccination SCARDA-KIC Co-organized Session E					T06 Cytek Japan Corp. E	
	409	Room F	8:30 9:00 11:30								T07 SCRUM Inc. J	
	402-403	Room G	9:00 11:40 12:40									
1 F	Exhibition Hall AB	Equipment Exhibition	8:30		Equipment Exhibition							
		Poster		Installation	Poster Viewing							

OT | Overview Talk

S | Symposium

C | Clinical Seminar

T | Technical Seminar

WS | Workshop

A | Afternoon Seminar

E in English

J in Japanese

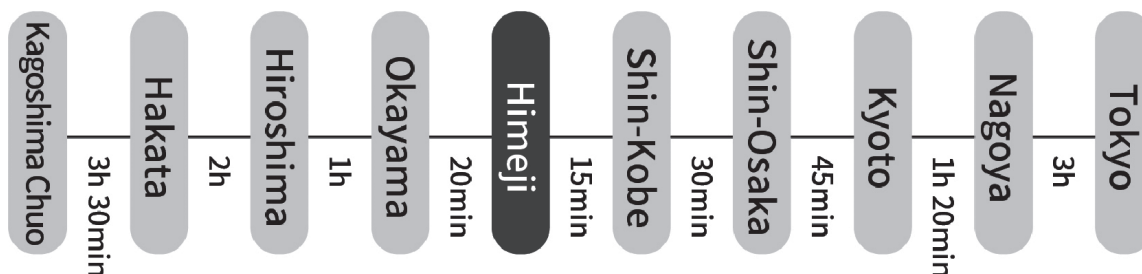
E | Evening Seminar

	13	30	14	30	15	30	16	30	17	30	18	30	19	30	20	30	21
	WS22 E T cell differentiation and function																
	WS23 E Tumor Immunity - Therapies																
	WS24 E Allergy (II): Mastering Disease Control																
	WS25 E Systemic autoimmunity, Autoinflammation and Immunodeficiency																
	WS26 E Cell death and innate lymphocytes																
	WS27 E Dendritic cells, macrophages, granulocytes																
	WS28 E Bacterial, Fungal, and Parasitic Infections and Immunity			15:45													
12:50				14:05													
Equipment Exhibition																	
14:15				15:00		16:05											
Poster Viewing				E Poster Discussion (Odd No.)		E Poster Discussion (Even No.)		<div>Removal</div>									

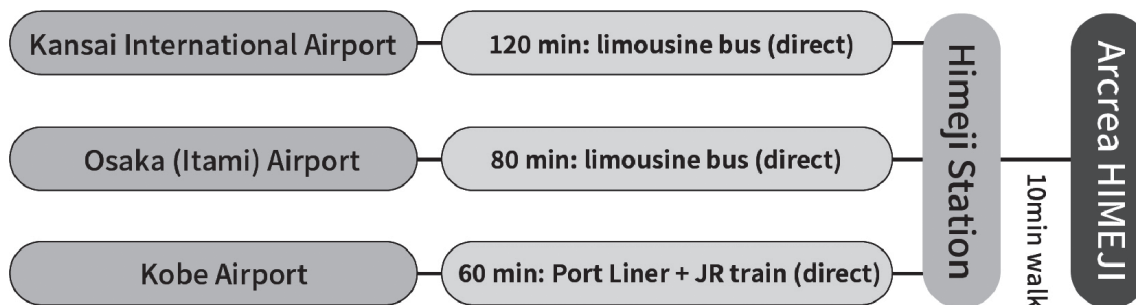
Access to Arcrea HIMEJI

DIRECTION

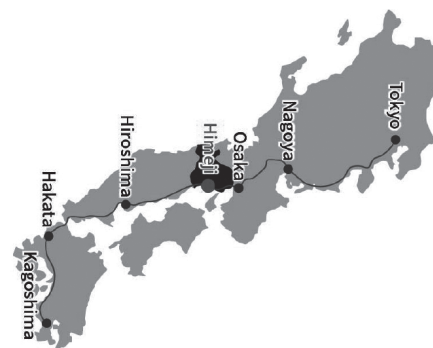
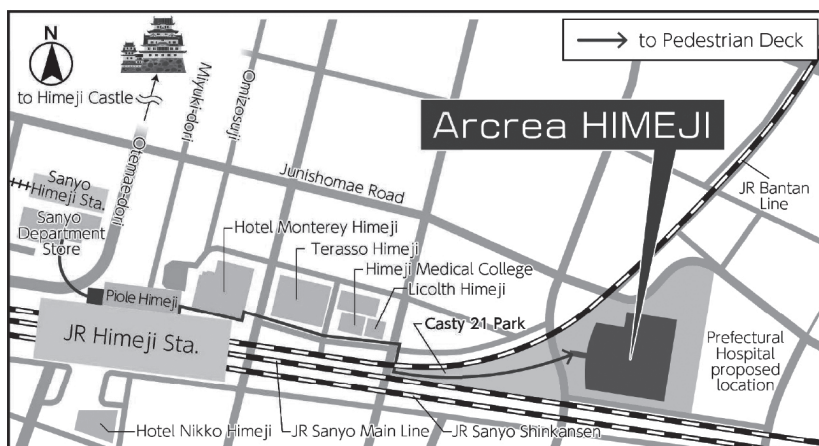
— By railway —



— By plane —

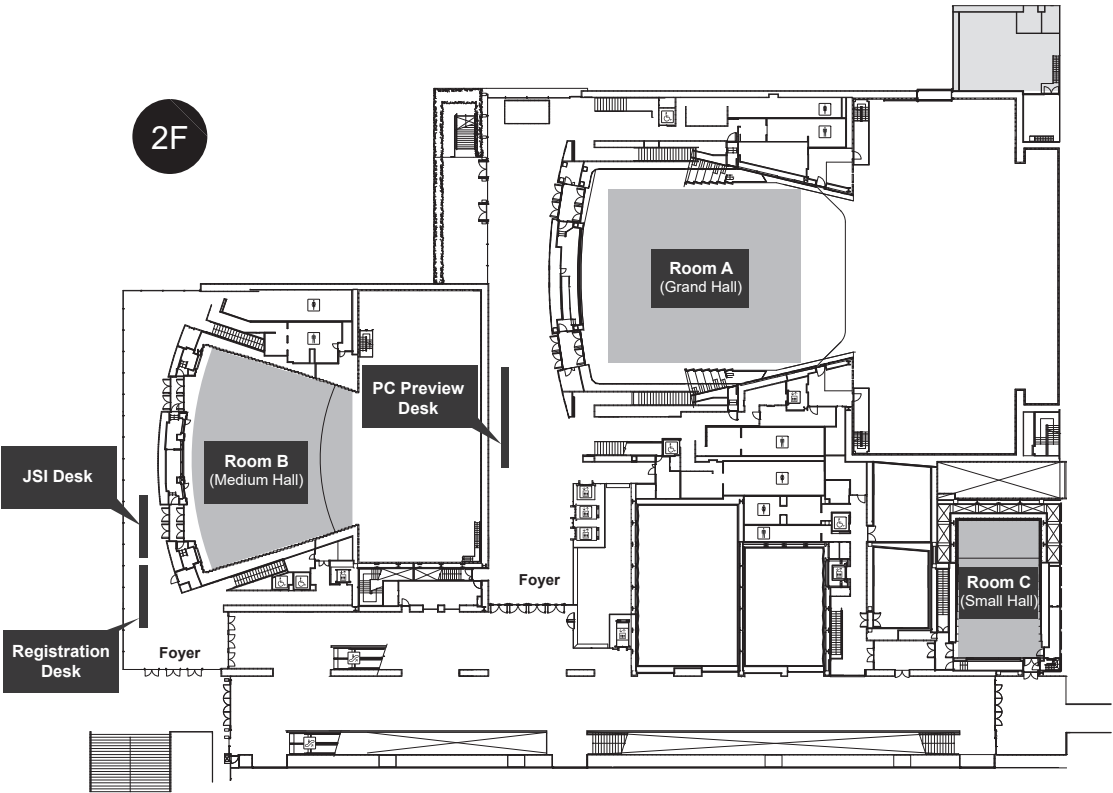
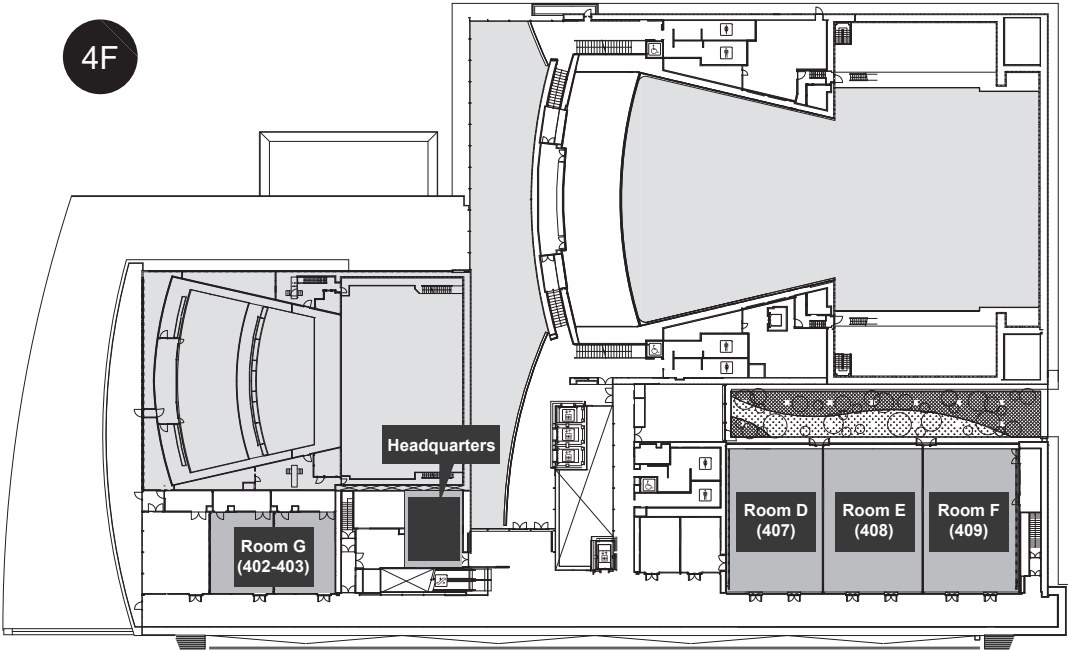


From Himeji Sta.



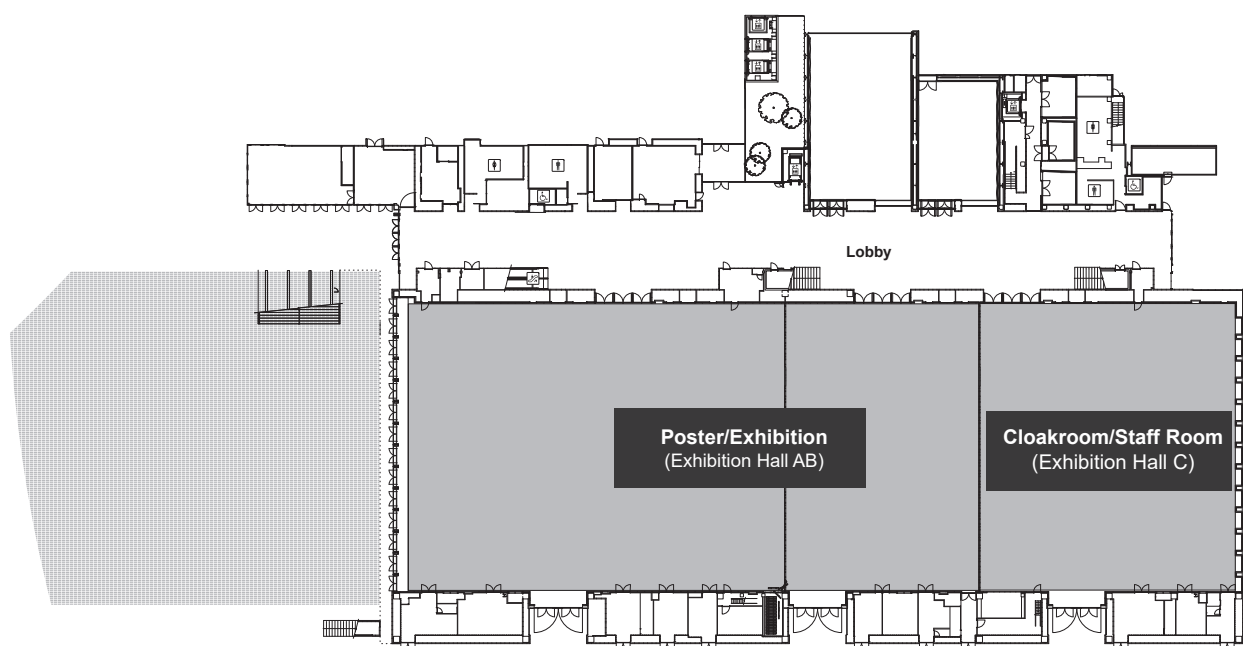
**About 10 min walk from
Himeji Station**
– a hub of Shinkansen and local
trains, private railways, buses,
and other transport modes

Conference Hall

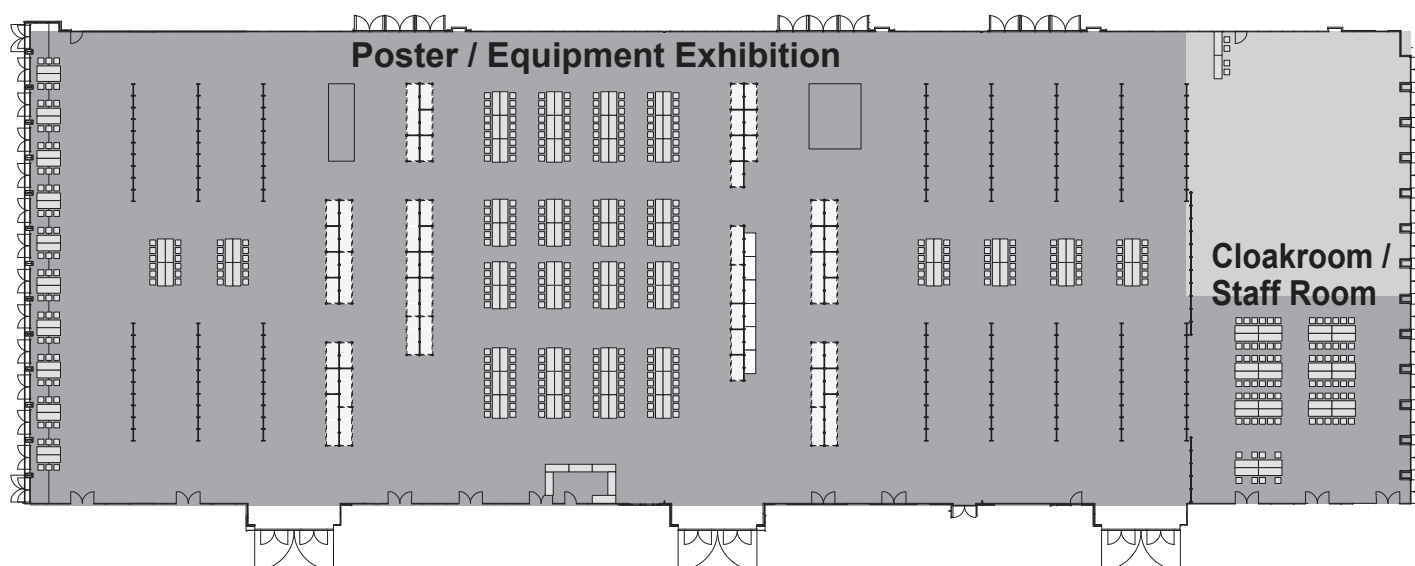


Conference Hall

1F



Exhibition Hall



Exhibitors List			
1	Sony Corporation	24	M&S TechnoSystems Inc.
2	Cyagen Biosciences (Suzhou) Inc.	25	EP Trading Co., Ltd.
3	GENEWIZ™(Azenta Japan Corp.)	26	TOYO Corporation
4	Live Cell Diagnosis, Ltd.	27	Bio-Techne(Proteinsimple, ACD, R&D Systems, NOVUS, TOCRIS)
5	AlpalifeBio	28	10x Genomics
6	SYSMEX CORPORATION	29	Elsevier Japan K.K.
7	ABclonal Biotechnology Co., Ltd.	30	Rigaku(MILabs B.V.)
8	Iwai Chemicals Co.,Ltd.	31	MiRTel Co.LTD.
9	Thermo Fisher Scientific K.K.	32	Bioengineering Lab. Co., Ltd.
10	SCRUM Inc.	33	Nippon Becton Dickinson Co., Ltd.
11	TOMY DIGITAL BIOLOGY CO., LTD.	34	BioStream Co., Ltd
12	Standard BioTools K.K.	35	Novogene Japan
13	Agilent Technologies Japan, LTd	36	Kyudo Co., Ltd.
14	Central Link Co., Ltd	37	VERITAS Corporation
15	Miltenyi Biotec K.K.	38	Proteintech Japan Co., Ltd.
16	Beckman Coulter K.K.	39	Cytex Corporation
17	Hitachi Ltd.	40	Rebirthel Co., Ltd.
18	InvivoGen	41	RIKEN BioResource Research Center
19	NACALAI TESQUE, INC.	42	Foundation for Biomedical Research and Innovation at Kobe
20	Ajinomoto Healthy Supply CO., INC.	43	Revvity
21	TOYOBO CO.,LTD.	44	PHC Corporation
22	Sino Biological Japan Inc.	45	CyberomiX Inc.
23	Katayama Chemical Industries	46	Nepa Gene Co., Ltd.

ご 案 内

本学術集会は、現地開催となります。オンライン配信および事後配信はありませんのでご注意ください。

1. 参加方法

◆ オンラインで参加登録をされた方

参加証（ネームカード）や領収書、参加証明書は、学術集会オンラインシステム（ONLINE CONF）へログインのうえダウンロードしてください。ログインにはご自身で登録したメールアドレスとパスワードをお使いください。

ネームホルダーは、現地の受付付近でお受け取りください。

◆ 現地で当日参加申込をされる方

2 階 ホワイエの参加受付にて学術集会参加費（下記参照）をお支払いのうえ、ネームカードをお受け取りください。

ネームカードをご着用でない方の入場はお断りいたします。

〈当日参加費（後期登録）〉

正会員	15,000 円
学生会員 *	3,000 円
学部学生会員 *	無 料
非会員	19,000 円
非会員学生 *	7,000 円
非会員学部学生 *	無 料

* 学部・大学院生は学生証の提示が必要です。

* 当日参加費のお支払いは現金のみです。

* 参加費にランチョンセミナー等のお弁当代は含まれておりません。

* 適格請求書発行事業者の登録番号：T9010005008442

〈参加受付開設時間〉

12 月 10 日（水）	7：45 ～ 17：00
12 月 11 日（木）	8：00 ～ 17：00
12 月 12 日（金）	8：00 ～ 13：00

◆ 名誉会員・功労会員

2 階 ホワイエの学会事務局デスクにお越しください。

2. 入会手続きおよび年会費の納入

日本免疫学会に未入会の方は、学会事務局デスク（現地会場 /2 階ホワイエ）にて入会できます。
2026 年度会費および未納年会費の納入も同所で受け付けます。

【年会費】

国内正会員	11,000 円
国内学生会員（博士）*	3,000 円
国内学生会員（学部・修士）*	0 円
海外正会員	12,000 円
海外学生会員（博士）*	4,000 円
海外学生会員（学部・修士）*	0 円

【入会金】

国内正会員、国内学生会員（博士）、
海外正会員、海外学生会員（博士）：1,000 円
国内学生会員（学部・修士）*、
海外学生会員（学部・修士）*：0 円
*学生会員（博士・学部・修士）の方は
学生証をご提示ください。

※一般演題の筆頭著者（発表者）は、2025 年度の会員（正会員、学生会員、功労会員、名誉会員に限ります）であることが義務付けられております。

3. プログラム、抄録集（プロシーディングス）

プログラムは、学術集会ホームページで公開し、また現地会場でも冊子を配布いたします。
会員は、抄録集（プログラム集、プロシーディングス）を PDF データ形式で学会ホームページの会員専用ページにて閲覧できます。閲覧にはご自身の会員番号（ID）とパスワードが必要です。

2025 年度会費を最近納入されたにもかかわらず、会員専用ページで閲覧できない際には学会事務局へお問い合わせください。

非会員の方には 5,000 円（税込）にて Web 抄録集（プロシーディングス）、プログラム集を販売いたします。

必要な方は参加登録の際にお申込みください。現地会場で参加申込をする方は、参加受付までお越しください。

4. 授賞式・受賞講演

授賞式：12 月 11 日（木）14:00 ～ 14:10 Room A（大ホール）にて行います。

- ・日本免疫学会賞 授賞式
- ・日本免疫学会ヒト免疫研究賞 授賞式
- ・日本免疫学会女性免疫研究者賞 授賞式
- ・日本免疫学会研究奨励賞 授賞式
- ・International Immunology Outstanding Merit Award 授賞式

受賞講演：12 月 11 日（木）14:10 ～ 15:00 ※授賞式に引き続き行います。

日本免疫学会賞、日本免疫学会ヒト免疫研究賞、日本免疫学会女性免疫研究者賞 受賞講演

5. 学術集会プログラム

本大会では以下のプログラムを実施します。

オーバービュートーク

各領域の基礎知識、歴史と発展を系統的に紹介する入門者向けの教育講演です。オーバービュー

トーク終了後、休憩時間をはさまずシンポジウムに移ります。

シンポジウム

国内外の免疫の研究者による 15 テーマ (S01 ～ S15) の国際シンポジウムを開催します。

演者の選考および形式については、プログラム委員会で指名した座長に一任いたしました。

それぞれのシンポジウムが同時進行する形をとります。シンポジウム進行方法、各演者の講演時間などは全て座長に一任しております。

JSI-JSA Joint Session

日本アレルギー学会とのジョイントセッションです。詳細はプログラムページをご確認ください。

JSI-JCR Joint Session

日本リウマチ学会とのジョイントセッションです。詳細はプログラムページをご確認ください。

アフタヌーンセミナー

協力企業との密な連携のもと、次世代を担う免疫学研究者を育成するプラットフォームの構築をめざし、企業ならではの趣向を取り入れたセミナーです。

ポスター、ワークショップ (口頭発表)

一般演題は、すべての演題のポスター発表と一部の演題による口頭発表が行われます。口頭発表と共にポスターでの活発な討論をお願いいたします。

テクニカルセミナー・クリニカルセミナー・イブニングセミナー

テクニカルセミナーは、お昼の時間帯と夜の時間帯 (イブニングセミナー) に、クリニカルセミナーはお昼の時間帯に行います。お弁当の入手方法については、次項の「6. セミナー整理券」をご参照ください。

講演の言語は「At a Glance」ページでご確認ください。

◆ テクニカルセミナー・イブニングセミナー

最新の医学・生命科学関連試薬・技術・機材・器機等を使った実験法などや、アレルギー・免疫疾患・癌・感染症研究に関連する最新の器機紹介を通じて、基礎研究・応用研究・開発研究の融合の場となるセミナーです。

◆ クリニカルセミナー

医薬品・生物学的製剤等による免疫疾患や感染症の診断や治療・予防の進展などをご紹介いただくセミナーです。

6. セミナー整理券 (ランチョンセミナー、イブニングセミナー)

テクニカルセミナー、クリニカルセミナー、イブニングセミナーで配布されるお弁当は、「セミナー整理券」と引き換えにてお渡しいたします。「セミナー整理券」は以下のように配布いたします。

なお、お弁当の数には限りがあります。予めご了承ください。

◆ セミナー整理券発券デスク

各日お一人につき一枚、セミナー整理券を配布します。複数枚のお渡しはできませんのでご了承ください。

場 所：2 階 ホワイエ

配布時間：各日 OPEN ～ 11:00 ※ 11:00 以降は各セミナー会場前で配布いたします

◆ お弁当の引換開始時刻

セミナー開始 15 分前より、各セミナー会場前でセミナー整理券とお弁当を引き換えのうえ、会場への入場を開始いたします。

※会場の状況、直前セッションの進行状況等により前後することがございます。

〈ご注意〉

- ・セミナー開始時刻までに来られない場合にはセミナー整理券は無効となり、整理券をお持ちでない方にご提供しますことをご了承ください。
- ・整理券をお持ちでなくてもセミナーを聴講することはできますが、お弁当の配布はございませんのでご了承ください。

7. 機器・試薬等展示

会期中、大会会場で機器・試薬展示を行います。休憩コーナー、ドリンクコーナーもご用意いたしますので、是非ご来場ください。

また、出展企業より提供される景品が当たるスタンプラリーも実施します。豪華景品もご用意しておりますので、是非ご参加ください。

8. 会員懇親会

日 時：12月11日（木）19:00-21:00

場 所：モンテレ姫路 3F 大宴会場「ベルヴェデーレ」

参 加 費：会員・非会員 5,000 円 学生会員・非会員学生・学部生 2,000 円

受 付：アクリエひめじ 2 階 ホワイエ

参加人数には限りがございますので、お早めにお申し込みをお願いします。

9. 学術集会講演会場における撮影・録音行為の規制について

学術集会講演会場（シンポジウム会場、口頭発表会場、ポスター会場など、学会発表内容のある場所）における撮影、録音行為を禁止いたします。ただし、学会が承認したものはその限りではありません。これは、発表者の許可無く学会発表の撮影・録音がおこなわれることにより、論文未掲載の最新データの発表が差し控えられるという現状を鑑みたものです。

会員の皆様の積極的かつ、活発な研究発表と討議がなされることを期待いたします。

General Information

This meeting will be held on-site. No online distribution of any programs during and after the meeting will be available.

1. On-site Participation

◆ Participants who registered online

Log into your account of ONLINE CONF, the online conference system, and download your meeting badge and the receipt of the registration fee. You can log into the system with your email address and password you set. Badge holders are available near the Registration Desk (2nd floor foyer).

◆ Participants who register on-site

Please come to the registration desk, pay the registration fee below and receive a meeting badge. Participants without wearing their meeting badges will not be allowed to enter the meeting site.

〈On-Site Registration Fee (Late Registration)〉

Member	JPY 15,000
Doctoral Student*	JPY 3,000
Undergraduate and Master's Degree Student*	Free
Non-Member	JPY 19,000
Doctoral Student Non-Member*	JPY 7,000
Undergraduate and Master's Student Non-Member Student*	Free

*All of students are required to show their student ID.

*We accept cash only.

〈Registration Desk opening hours〉

December 10 (Wed)	7:45 - 17:00
December 11 (Thu)	8:00 - 17:00
December 12 (Fri)	8:00 - 13:00

◆ Honorary members / Meritorious members

Please come to the JSI Secretariat Desk at Foyer, 2F.

2. Application and Annual Membership Fee

You can join the JSI (the Japanese Society for Immunology) at the JSI desk on the meeting site. You can also pay your membership fees at the JSI desk at Foyer, 2F.

Annual Membership Fee (Domestic)

Member	JPY 11,000
Doctoral Student*	JPY 3,000
Undergraduate and Master's Degree Student*	Free

(Overseas)

Member	JPY 12,000
Doctoral Student*	JPY 4,000
Undergraduate and Master's Degree Student*	Free

Application Fee

Member, Doctoral Student	JPY1,000
Undergraduate and Master's Degree Student*	Free

*All of students are required to show their student ID.

***First Authors (Presenting authors) must be JSI members: Regular, Student, Meritorious or Honorary members. However, foreign-registered authors residing outside Japan are excluded.**

3. Meeting Program / Proceedings (Abstracts)

The digital version of Meeting Program will be available on the meeting website, and the printed version of Meeting Program will be distributed to participants on the meeting site.

Meeting Program and Proceedings (abstracts) as a PDF file will be available on the website for JSI members. You need your membership ID and password to login to this website.

For non-members, Web Proceedings (abstracts) will be available for purchase at JPY 5,000 (tax included). If you wish to purchase a copy, please apply at the time of registration.

Participants who register on-site are kindly requested to visit the registration desk.

4. Awards Ceremony & Lectures

Ceremonies: Thursday, December 11, 14:00 - 14:10 , Room A (Grand Hall)

- JSI Award Ceremony
- JSI Human Immunology Research Award Ceremony
- JSI Women Immunologist Award Ceremony
- JSI Young Investigator Award Ceremony
- International Immunology Outstanding Merit Award Ceremony

Lectures: Thursday, December 11, 14:10 - 15:00, Room A (Grand Hall)

Lectures below will be held after the above Ceremonies.

- JSI Award Lecture
- JSI Human Immunology Research Award Lecture
- JSI Women Immunologist Award Lecture

5. Programs

The 54th JSI meeting will have following programs.

Overview Talk

Overview talks held prior to each symposium are kind of educational lectures and especially for students or those who are not specialized in the topics.

Symposia

International symposia on 15 topics(S01-S15)will be held by both domestic and overseas immunologists. The program committee appointed chairs of symposia and left selection of speakers to the discretion of those chairs.

Some symposia will be conducted concurrently. Chairs decide how they lead their sessions and presentation time of each speaker.

JSI-JSA Joint Session

The session will be held jointly with Japanese Society of Allergology. Refer to the program page for detailed information.

JSI-JCR Joint Session

The symposium will be held jointly with Japan College of Rheumatology. Refer to the program page for detailed information.

Afternoon Seminars

Those seminars are held aimed at building platforms for developing Immunologists who are responsible for the next generation in close collaborations with cooperative companies. Those are elaborate seminars unique to the companies.

Workshop (Oral presentations and Poster)

All regular papers are to be presented at Poster session. Some of selected regular papers are to be presented at Workshop as well.

Technical Seminars, Clinical Seminars, Evening Seminar

Technical Seminars will be held during the lunch time and evening time (as Evening Seminar). And, Clinical Seminars will be held during the lunch time.

Please refer to “6. Seminar Ticket” for more information regarding Luncheon seminars.

Language of each seminar can be found on “At a Glance” of the program page of our website.

◆ Technical Seminars, Evening Seminar

Those seminars aim to promote interaction between basic research, application research and development research through introducing experimental methods with latest life science related regents, technologies, machines and equipment, or latest equipment for researching allergy, immunological diseases, cancer, and infectious disease.

◆ Clinical Seminars

Those seminars aim to introduce developments of diagnosis, treatment and prevention of immunological and infectious diseases caused by pharmaceutical and biological products.

6. Seminar Ticket (Technical Seminars, Clinical Seminars, Evening Seminar)

A box lunch will be served for those has a Seminar Ticket at Technical and Clinical Seminars, evening seminar. Please kindly note that number of tickets are limited. Tickets will be distributed as below:

◆ Seminar Ticket Desk

One ticket for one person on a day (except Evening Seminar). Ticket distribution is on the first come, first served basis. We are not able to distribute more than one ticket to one person on a day.

Location : Foyer, 2F

Time: OPEN-11:00 (After 11:00, you may receive a ticket in front of each session room if tickets are still available)

◆ Receiving a box lunch

Redeem a ticket to receive a box lunch. You can receive it from 15 minutes before seminars begin in front of each seminar room.

*Starting time for receiving may be changed depending on previous seminar's ending time.

〈IMPORTANT〉

- Please arrive at the seminar rooms before the start time. If you do not show up in the room by the start time, your box lunch will be provided to another attendee who does not have a ticket.
- You can attend those seminars without tickets, however, a box lunch will not be served.

7. Commercial Exhibition – Exhibition of Machineries and Reagents

Exhibitions of machineries and reagents will be held. There will be a resting space and drink service in the exhibition space.

If you collect stamps by visiting exhibition booths, you can get gifts provided by exhibitors. You have a chance to win a special gift. Look forward to your participation in the stamp rally.

8. Get Together Party

Date & Time: December 11, 2025, 19:00-21:00

Venue: "Belvedere", 3F, Hotel Monterey Himeji

Fee: Member and Non-member JPY5,000 Student and Student Non-member JPY2,000

Registration desk: Foyer, 2F, Arcrea HIMEJI

The number of participants is limited. We recommend you register as early as possible.

9. Photographing and recording

Photographing and recording are prohibited in all sessions. However, photographing and recording by those who have obtained permission from the JSI may be granted.

Overview Talk

Program for Overview Talks

8:30 ~ 9:00, Wednesday, December 10

OT01 Overview Talk 01 Room A: Grand Hall

Chairpersons: Motoko Kimura (Chiba University)
Sho Yamasaki (Research Institute for Microbial Diseases, The University of Osaka)

Innate-like T Cells: Beyond MHC Restriction

Ryunosuke Muro Tokyo University of Science

8:30 ~ 9:00, Wednesday, December 10

OT02 Overview Talk 02 Room B: Medium Hall

Chairpersons: Yasuhiro Murakawa (Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University)
Shohei Kojima (Keio University)

Mapping Human Immune Systems and Diseases with Cutting-Edge Genomics and Computation

Yasuhiro Murakawa Kyoto University

8:30 ~ 9:00, Wednesday, December 10

OT03 Overview Talk 03 Room C: Small Hall

Chairpersons: Hiroyoshi Nishikawa (National Cancer Center Japan Research Institute)
Hiroaki Ikeda (Department of Oncology, Graduate School of Biomedical Sciences, Nagasaki University)

Cancer immune evasion mechanisms and their application to therapy: An Up-to-Date Review

Toshihiko Torigoe Sapporo Medical University

8:30 ~ 9:00, Wednesday, December 10

OT04 Overview Talk 04 Room D: 407

Chairpersons: Yoko Hamazaki (Center for iPS Cell Research and Application (CiRA), Kyoto University)
Yuki Sato (Hakubi Center for Advanced Research, Kyoto University)

Immune aging in T cells: Implications for immune dysfunction and age-related diseases

Yuki Sato Hakubi Center, Kyoto University / Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University / Department of Nephrology, Graduate School of Medicine, Kyoto University

8:30 ~ 9:00, Wednesday, December 10

OT05 Overview Talk 05 Room E: 408

Chairpersons: Takeshi Nitta (Tokyo University of Science)
Ryo Morimoto (Department of Molecular Biology, Umea University)

Diversity and evolutionary origins of the immune systems on Earth

Takeshi Nitta Tokyo University of Science

8:30 ~ 9:00, Thursday, December 11

OT06 Overview Talk 06 Room A: Grand Hall

Chairpersons: Ichiro Taniuchi (RIKEN)
Izumi Ohigashi (Institute of Advanced Medical Sciences, Tokushima University)

Overview of thymus biology

Izumi Ohigashi Institute of Advanced Medical Sciences, Tokushima University

8:30 ~ 9:00, Thursday, December 11

OT07 Overview Talk 07 Room B: Medium Hall

Chairpersons: Hideki Ueno (Kyoto University)
Eui-Cheol Shin (KAIST)

Current progress in human immunology of infection and vaccination

Ryutaro Kotaki The University of Tokyo / National Institute of Infectious Diseases, Japan Institute for Health Security

8:30 ~ 9:00, Thursday, December 11

OT08 Overview Talk 08 Room C: Small Hall

Chairpersons: Osamu Takeuchi (Graduate School of Medicine, Kyoto University)
Taro Kawai (Nara Institute of Science and Technology)

An overview of nucleic acid sensing pathways in innate immunity and their role in disease

Taro Kawai Nara Institute of Science and Technology

8:30 ~ 9:00, Thursday, December 11

OT09 Overview Talk 09 Room D: 407

Chairpersons: Hisashi Arase (The University of Osaka)
Keiko Udaka (Department of Immunology, Kochi Medical School)

Redefining TCR Recognition: Emerging Mechanisms in Antigen-MHC Interaction

Tadashi Yokosuka Tokyo Medical Univeristy

8:30 ~ 9:00, Thursday, December 11

OT10 Overview Talk 10 Room E: 408

Chairpersons: Akio Morinobu (Department of Rheumatology and Clinical immunology, Graduate School of Medicine, Kyoto University)
Hiroshi Takayanagi (Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo)

Advances in Basic and Clinical Research on Autoimmune Diseases

Akio Morinobu Rheumatology, Kyoto University Graduate School of Medicine

8:30 ~ 9:00, Friday, December 12

OT11 Overview Talk 11 Room A: Grand Hall

Chairpersons: Hiroshi Kawamoto (Institute for Life and Medical Sciences, Kyoto University)
Yuki Kagoya (Division of Tumor Immunology, Institute for Advanced Medical Research Keio University School of Medicine)

Cell Therapy: Current Status and Future Prospects

Takashi Aoi Kobe University

8:30 ~ 9:00, Friday, December 12

OT12 Overview Talk 12 Room B: Medium Hall

Chairpersons: Kenji Kabashima (Department of Dermatology, Graduate School of Medicine and Faculty of Medicine, Kyoto University)
Atsuhito Nakao (Department of Immunology, Faculty of Medicine, University of Yamanashi)

The Allergy Paradigm Shift: Linking Basic Mechanisms to Clinical Impact

Hideaki Morita National Research Institute for Child Health and Development

8:30 ~ 9:00, Friday, December 12

OT13 Overview Talk 13 Room C: Small Hall

Chairpersons: Keiji Hirota (Kyoto University)
Christoph Wilhelm (University of Bonn)

Gut myeloid cell heterogeneity and environmental cues in the regulation of intestinal homeostasis

Keiji Hirota Kyoto University

8:30 ~ 9:00, Friday, December 12

OT14 Overview Talk 14 Room D: 407

Chairpersons: Yoichi Nakayama (Kyoto University)

Immune Reaction and Tolerance to Self

Yoshinaga Ito Kyoto University



8:30 ~ 9:00, Friday, December 12

OT15 Overview Talk 15 Room E: 408

Chairpersons: Masato Kubo (Kyoto University Immunomonitoring Center (KIC))
Cevayir Coban (The Institute of Medical Science (IMSUT), The University of Tokyo)

New Trends in Vaccination

Masato Kubo Kyoto University

Symposium

Program for Symposia

Symposium 01

Room A 9:00 ~ 11:30 December 10

S01. Physiological and pathological roles of Innate-like T cells ASI-JSI Joint Session/ Grant-in-Aid for Transformative Research Area (A): Self-referential immune perception co-organized session

Chairpersons: Motoko Kimura (Chiba University)
Sho Yamasaki (Research Institute for Microbial Diseases, The University of Osaka)

S01-01

9:00-9:30

Critical Roles of T cell receptor gamma delta in tissue immunosurveillance

Adrian Hayday Francis Crick Institute, London, UK / King's College London, UK

S01-02

9:30-10:00

Exploring neonatal T cells: Recent findings and insights

Motoko Kimura Chiba University

S01-03

10:00-10:30

Homeostasis, Regulation, and Modulation of Innate-like T Cells

Fern Koay Peter Doherty Institute for Infection and Immunity / University of Melbourne

S01-04

10:30-11:00

Conserved unconventional T cell subsets across primates that recognize a mycobacterial adjuvant

Yuki Sakai Research Institute for Microbial Diseases, The University of Osaka

S01-05

11:00-11:30

Why T cell positive selection requires LCK to be coreceptor-bound

Alfred Singer National Cancer Institute

Symposium 02

Room B 9:00 ~ 11:30 December 10

S02. Cutting-edge technologies uncovering the immune system and disease mechanisms Co-sponsored by Institute for the Advanced Study of Human Biology (ASHBi)

Chairpersons: Yasuhiro Murakawa (Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University)
Shohei Kojima (Keio University)

S02-01

9:00-9:30

Spatial transcriptomics of B and T cell receptors uncovers lymphocyte clonal dynamics in human tissue

Qirong Lin Karolinska Institutet

S02-02

9:30-10:00

Towards high specificity and low off-target recognition: De novo-designed pMHC binders facilitate T cell-mediated cytotoxicity towards cancer cells

Darian Stephan Wolff Technical University of Denmark

S02-03

10:00-10:30

Human genetics approach to understand the risk of viruses in immune disease

Shohei Kojima Keio University

S02-04

10:30-11:00

Advancing Transcriptomic Technologies to Decipher the RNA dynamics in Immunity

Akiko Oguchi RIKEN Center for Integrative Medical Sciences/Institute for the Advanced Study of Human Biology (WPI-ASHBi), Kyoto University

S02-05

11:00-11:30

Scalable single-cell technologies for resolving immune heterogeneity

Caleb Lareau Memorial Sloan Kettering

Symposium 03

Room C 9:00 ~ 11:30 December 10

S03. New cancer immunotherapy based on immunosuppression in the tumor microenvironment

JACI, JCA co-organized Session/ Sponsored by International Immunology

Chairpersons: Hiroyoshi Nishikawa (National Cancer Center Japan Research Institute)
 Hiroaki Ikeda (Department of Oncology, Graduate School of Biomedical Sciences, Nagasaki University)

S03-01

9:00-9:20

Single cell analysis of tumor infiltrating lymphocytes in Japanese melanoma

Yoshihiko Hirohashi Sapporo Medical University

S03-02

9:20-10:00

Reprogramming the tumor microenvironment with a single punch!

Ping-Chih Ho Ludwig Institute for Cancer Research

S03-03

10:00-10:30

Mitochondrial Transfer–Driven Immune Evasion in the Tumor Microenvironment

Yosuke Togashi Okayama University

S03-04

10:30-10:50

Identifying the mechanism of acquired resistance against cancer immunotherapy targeting innate immunity

Hitomi Nishinakamura National Cancer Center Research Institute

S03-05

10:50-11:30

Reprogramming the Tumor Microenvironment to Restore Checkpoint Blockade Sensitivity

Taha Merghoub Weill Cornell Medical Center

Symposium 04

Room D 8:42 ~ 11:30 December 10

S04. The Physiology and Pathology of Human T Cell Aging: Toward Regulation and Regeneration

SFI-JSI Joint Session

Chairpersons: Yoko Hamazaki (Center for iPS Cell Research and Application (CiRA), Kyoto University)
 Yuki Sato (Hakubi Center for Advanced Research, Kyoto University)

S04-01

9:00-9:30

TCF1 and HELIOS - Goddesses of T-cell youth

Jorg Goronzy Mayo Clinic College of Medicine and Sciences

S04-02

9:30-10:00

Aging Immunity in Tissue Context: Tertiary Lymphoid Structures as Drivers of Local Inflammation

Yuki Sato Hakubi Center, Kyoto University / Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University / Department of Nephrology, Graduate School of Medicine, Kyoto University

S04-03

10:00-10:30

Human antiviral T cell immunity eliminates senescent cells

Tatsuya Hasegawa Kyoto University

S04-04

10:30-11:00

T Cell Responsiveness in Immune Ageing, Viral Infections and Vaccination: Decline and Resilience

Victor Appay Bordeaux University and INSERM, France

S04-05

11:00-11:30

Regeneration of Thymic Function Using iPSC Technology: An Option for Overcoming T-cell Aging

Yoko Hamazaki Center for iPS Cell Research and Application (CiRA), Laboratory of Immunobiology, Graduate School of Medicine, Kyoto University

Symposium 05

Room E 9:00 ~ 11:30 December 10

S05. Immune systems on the planetChairpersons: Takeshi Nitta (Tokyo University of Science)
Ryo Morimoto (Department of Molecular Biology, Umea University)**S05-01**

9:00-9:30

Emergence and divergence of blood cell lineages in the history of animal evolution

Yosuke Nagahata Institut de Biologia Evolutiva / Japan Society for the Promotion of Science

S05-02

9:30-10:00

Evolution of Antigen Receptor Assembly: Insights from Self-Genome Editing Mechanisms in Vertebrates

Ryo Morimoto Department of Molecular Biology, Umeå University

S05-03

10:00-10:30

Cows, immunogenetics and the evolution of “reach” in antigen recognition

Mike Criscitiello Texas A&M University

S05-04

10:30-11:00

Germinal Center-like Lymphoid Aggregates in Cold-Blooded Vertebrates Support Antibody Responses

Yasuhiro Shibasaki Nihon Univerisy

S05-05

11:00-11:30

Genomic insights into immune system adaptations of bats

Michael Hiller Senckenberg Research Institute

Symposium 06

Room A 9:00 ~ 11:30 December 11

**S06. Biology related with the Thymus
ASI-JSI Joint Session/ KTCC Sponsored Session**Chairpersons: Ichiro Taniuchi (RIKEN)
Izumi Ohigashi (Institute of Advanced Medical Sciences, Tokushima University)**S06-01**

9:00-9:30

Thymic epithelial coordination for the development of self-conscious T cells

Yosuke Takahama National Institutes of Health

S06-02

9:30-10:00

Gene regulatory control of eligibility to enter the T-cell developmental pathway

Ellen V. Rothenberg California Institute of Technology

S06-03

10:00-10:30

LCK-co- receptor association ensures T cell lineage fidelity and maximizes epitope-specific TCR diversity

Nicole La Gruta Monash University

S06-04

10:30-11:00

Roles of Runx tyrosine phosphorylation in thymocyte fate decision

Ichiro Taniuchi RIKEN IMS, Lab Transcriptional Regulation

S06-05

11:00-11:30

Treg-based induction of immune tolerance

Shimon Sakaguchi The University of Osaka

*This lecture is held to commemorate the 2025 Nobel Prize in Physiology or Medicine jointly awarded to Mary E. Brunkow, Fred Ramsdell, and Shimon Sakaguchi.



Pre-recorded video presentation

Symposium 07

Room B 9:00 ~ 11:30 December 11

S07. Decoding Human Immunity in Infectious Diseases

KAI-JSI Joint Session

Chairpersons: Hideki Ueno (Kyoto University)
Eui-Cheol Shin (KAIST)

S07-01

9:00-9:30

Recent topics in Inborn Errors of Immunity

Satoshi Okada Hiroshima University Graduate School of Biomedical and Health Sciences

S07-02

9:30-10:00

IL-15-induced NK-like activation of CD8+ T cells in viral infection

Eui-Cheol Shin Graduate School of Medical Science and Engineering, KAIST

S07-03

10:00-10:30

Host-pathogen interaction: lessons from malaria, cytomegalovirus and SARS

Antonio Lanzavecchia National Institute of Molecular Genetics, INGM

S07-04

10:30-11:00

T cell differentiation: Lessons from primary immunodeficiencies

Federica Sallusto Institute for Research in Biomedicine, Università della Svizzera italiana, Bellinzona, Switzerland and Institute of Microbiology, ETH Zurich, Switzerland

S07-05

11:00-11:30

Antigen-Specific High-Avidity CD4+ T Cells in Humans

Hideki Ueno Graduate School of Medicine, Kyoto University

Symposium 08

Room C 9:00 ~ 11:30 December 11

S08. Innate Immune recognition of nucleic acids and diseases

DGfl-JSI Joint Session

Chairpersons: Osamu Takeuchi (Graduate School of Medicine and Faculty of Medicine, Kyoto University)
Taro Kawai (Nara Institute of Science and Technology)

S08-01

9:00-9:30

Diseases caused by innate immune responses to single-stranded RNAs

Kensuke Miyake Chiba University

S08-02

9:30-10:00

Detection of non-self nucleic acids by Toll-like receptors

Veit Hornung Ludwig-Maximilians-Universität Munich

S08-03

10:00-10:30

Local activation of mutant RIG-I by short non-coding RNAs in the kidney triggers lethal nephritis

Hiroki Kato University Hospital Bonn, University of Bonn

S08-04

10:30-11:00

Exploring the interface between RNA viruses and hosts

Sara Cherry University of Pennsylvania

S08-05

11:00-11:30

Roles of RNA Decay in the Regulation of Inflammatory Responses

Osamu Takeuchi Kyoto University

Symposium 09

Room D 9:00 ~ 11:30 December 11

S09. New aspects of TCR recognition of antigen-MHC complex

Chairpersons: Hisashi Arase (The University of Osaka)
 Keiko Udaka (Department of Immunology, Kochi Medical School)

S09-01

9:00-9:30

Polymorphic interactions of natural killer cell receptors with HLA-peptide complexes

Paul Norman University of Colorado School of Medicine

S09-02

9:30-10:00

Breaking Self Tolerance: Self and Neoself Discrimination by T Cells in Autoimmune Diseases

Hisashi Arase Laboratory of Immunochemistry, Immunology Frontier Research Center, The University of Osaka / Department of
 Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka

S09-03

10:00-10:30

Comprehensive analysis T cell receptors reveals CDR3 patterns associated with autoimmunity and T cell fate

Kazuyoshi Ishigaki Keio University School of Medicine

S09-04

10:30-11:00

Thymic selection of the neonatal Foxp3+ T regulatory cell repertoire

Eric Huseby The University of Massachusetts Medical School

S09-05

11:00-11:30

Impacts of TCR-MHC recognition characteristics on immune checkpoint function

Taku Okazaki The University of Tokyo

Symposium 10

Room E 9:00 ~ 11:30 December 11

**S10. Basic and Translational Research on Autoimmune Diseases
JSI-JCR Joint Session**

Chairpersons: Akio Morinobu (Department of Rheumatology and Clinical immunology, Graduate School
 of Medicine and Faculty of Medicine, Kyoto University)
 Hiroshi Takayanagi (Department of Immunology, Graduate School of Medicine and
 Faculty of Medicine, The University of Tokyo)

S10-01

9:00-9:30

Unexpected aspects of lymphocyte cell biology

John O'shea NIAMS/NIH

**S10-02**

9:30-10:00

Induction of immunological tolerance by thymic mimetic cells

Diane Mathis Harvard Medical School

S10-03

10:00-10:30

Immune-mesenchymal Interplay in the pathogenesis of autoimmune arthritis

Noriko Komatsu Institute of Science Tokyo

S10-04

10:30-11:00

Deciphering the dynamics of tissue immune responses in autoimmune diseases

Hiroyuki Yoshitomi Graduate School of Medicine, Kyoto University

S10-05

11:00-11:30

Modulation of human immune cells by molecular targeted therapies

Satoshi Kubo The first department of internal medicine, University of Occupational and Environmental Health

Symposium 11Room A 9:00 ~ 11:30 December 12

S11. Current Status and Prospects of Cell Therapy

Chairpersons: Hiroshi Kawamoto (Institute for Life and Medical Sciences, Kyoto University)
 Yuki Kagoya (Division of Tumor Immunology, Institute for Advanced Medical Research
 Keio University School of Medicine)

S11-01

9:00-9:30

Novel strategies to improve the anti-tumor potential of CAR-T cells against solid cancers

Koji Tamada Yamaguchi University Graduate School of Medicine, Department of Immunology / The Research Institute for Cell Design Medical Science, Yamaguchi University

S11-02

9:30-10:00

CAR T- or NK-cells targeting mismatched HLA-DR molecules in acute myeloid leukemia after allogeneic hematopoietic stem cell transplant

Naoki Hosen Department of Hematology and Oncology, Graduate School of Medicine, The University of Osaka

S11-03

10:00-10:30

Improving CAR-T cell therapy based on the molecular understanding of resistance mechanisms

Yuki Kagoya Division of Tumor Immunology, Institute for Advanced Medical Research, Keio University School of Medicine

S11-04

10:30-11:00

Development of universal off-the-shelf T cell medicine produced from pluripotent stem cells for the treatment of leukemia and viral infection

Hiroshi Kawamoto Institute for Life and Medical Sciences, Kyoto University

S11-05

11:00-11:30

TRACeR: a cross-allelic pMHC targeting system

Possu Huang Stanford University

Symposium 12Room B 9:00 ~ 11:30 December 12

S12. The Allergy Revolution: From Basic Science to Transformative Therapies
JSI-JSA Joint Session

Chairpersons: Kenji Kabashima (Department of Dermatology, Graduate School of Medicine and Faculty of Medicine, Kyoto University)
 Atsuhito Nakao (Department of Immunology, Faculty of Medicine, University of Yamanashi)

S12-01

9:00-9:30

Identification of HEV-like endothelial cells and CD4+ resident memory T cells in atopic dermatitis

Kenji Kabashima Kyoto University

S12-02

9:30-10:00

Dynamic Stromal-Immune Conversations in Health and Injury

Ari Molofsky University of California

S12-03

10:00-10:30

Therapeutic potential of targeting ILC2s in allergic diseases

Kazuyo Moro Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka / Laboratory for Innate Immune Systems, RIKEN-IMS

S12-04

10:30-11:00

Immunological Mechanisms of Asthma with a Focus on Human Eosinophils and ILC2s

Koichi Fukunaga Keio University School of Medicine, Department of Medicine, Pulmonary Division

S12-05

11:00-11:30

New mechanisms in type 2 inflammation

Bart Lambrecht VIB Center for Inflammation Research

Symposium 13

Room C 9:00 ~ 11:30 December 12

S13. Inflammation and tissue repair regulated by gut myeloid cell subsets and environmental cues

DGfI-SFI-JSI Joint Session

Chairpersons: Keiji Hirota (Kyoto University)
Christoph Wilhelm (University of Bonn)

S13-01

9:00-9:30

Smoking and Gut Microbiota in Inflammatory Bowel Disease

Hiroshi Ohno RIKEN Center for Integrative Medical Sciences

S13-02

9:30-10:00

Human single-cell multiomics reveals epigenetic programming of immune cells driving gut inflammation in Crohn's disease

Mari Murakami The University of Osaka

S13-03

10:00-10:30

Metabolic cooperations fueling barrier immunity

Christoph Wilhelm University of Bonn

S13-04

10:30-11:00

Tissue Macrophage Heterogeneity

Florent Ginhoux Fondation Gustave Roussy

S13-05

11:00-11:30

Transcriptional control of tissue repair programs in macrophages

Yasutaka Okabe Immunology Frontier Research Center (IFReC), The University of Osaka

Symposium 14

Room D 9:00 ~ 11:30 December 12

S14. Immune Reaction and Tolerance to Self

Chairpersons: Yoichi Nakayama (Kyoto University) <S14-01~S14-03-2>
Ryuichi Murakami (The University of Tokyo) <S14-04~S14-05>

S14-01

9:00-9:30

Investigating T cell immunobiology using genetically engineered models

Nikhil Joshi Yale University

S14-02

9:30-10:00

Dissecting the Protective Niche Facilitating the Immune Tolerance of Epithelial Stem Cells

Yuxuan Miao The University of Chicago

S14-03

10:00-10:10

Clonally expanded tissue-specific Tregs mediate tissue-specific immune tolerance

Shohei Hori The University of Tokyo

**S14-03-2**

10:10-10:30

Dynamic and direct regulation of Treg cell cis-regulatory programs by Foxp3

Ryuichi Murakami The University of Tokyo

S14-04

10:30-11:00

Predominantly Treg-derived soluble CTLA-4 restrains type-1 immunity while sparing type-2 responses, favoring inflammation resolution

Motonao Osaki Laboratory of Immunopathogenesis, Institute for Life and Medical Sciences (LiMe), Kyoto University /
Laboratory of Experimental Immunology, Immunology Frontier Research Center (WPI-IFReC), Osaka
University

**S14-05**

11:00-11:30

Role of Th1-type Treg in tumor immunity and autoimmunity

Masahiro Yamamoto RIMD, The University of Osaka / IFReC, The University of Osaka

Symposium 15

Room E 9:00 ~ 11:30 December 12

S15. New trends in vaccination

SCARDA-KIC Co-organized Session

Chairpersons: Masato Kubo (Kyoto University Immunomonitoring Center (KIC))
Cevayir Coban (The Institute of Medical Science (IMSUT), The University of Tokyo)

S15-01

9:00-9:30

Host-Plasmodium Interactions and Vaccine Progress: Current Status and Future Directions

Cevayir Coban The University of Tokyo

S15-02

9:30-10:00

Dissecting the tissue biology of inflammasomes in inflammation

Jelena Bezbradica University of Oxford

S15-03

10:00-10:30

Immune profiling of emerging viral threats: lessons from influenza, SARS-CoV-2, and mpox

Rory de Vries Erasmus MC

S15-04

10:30-11:00

Decoding vaccine immunity for rational vaccine design

Yoshimasa Takahashi Japan Institute for Health Security, National Institute of Infectious Diseases

S15-05

11:00-11:30

Systems human immunology: immune setpoint and immune health

John Tsang Center for Systems and Engineering Immunology, Yale University

Workshop

○ : Presenter

Program for Workshops

December 10

WS01 TCR and co-stimulatory molecules

14:00 ~ 15:15 Room A

Chairpersons: Yuriko Tanaka, Ei Wakamatsu

TCR signaling, together with signals from costimulatory molecules, plays a key role in T cell activation and drives effector T cell differentiation. However, these signals vary among T cell subsets. To gain a deeper understanding of immune responses, it is therefore essential to elucidate the molecular mechanisms of T cell activation in different T cell subsets. In this session, we would like to discuss on the regulation of T cell activation and the fate decisions mediated by TCR and costimulatory signals, together with the structural basis of TCR recognition, across diverse T cell subsets including effector T cells, regulatory T cells, and unconventional T cells. We hope active participation and discussion that will further advance our understanding of T cell responses.

WS01-01-O/P

TCR Affinity and Memory Status Define Competitive Advantage in CD8⁺ T Cells

○ Masaki Kurosu, Mikiya Tsunoda, Haru Ogiwara, Kouji Matsushima, Satoshi Ueha

Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science

WS01-02-O/P

Antitumor Effects of TNF Ligand–Fusion Proteins Targeting Costimulatory TNFRSF Members on T Lymphocytes

○ Ayaka Sato¹⁾, Syuji Toya¹⁾, Kanon Hase¹⁾, Masashi Morita¹⁾, Mari Hikosaka-Kuniishi¹⁾, Naoto Ishii²⁾, Takanori So¹⁾

¹⁾Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan,

²⁾Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan

WS01-03-O/P

Complete humanization of MHC genes in mouse

○ Teruhiko Suzuki^{1,2)}, Mana Yamakawa^{1,2)}, Saki An^{1,2)}, Hiroko Yanagisawa¹⁾, Yasuhiro Kazuki^{3,4,5,6)}, Mitsuo Oshimura³⁾, Eiji Mizutani⁷⁾, Takahiko Hara¹⁾

¹⁾Stem Cell Proj., Tokyo Metropol. Inst. Med. Sci., ²⁾Immunomed. Group, Tokyo Metropol. Inst. Med. Sci., ³⁾CERC, Tottori Univ., ⁴⁾Div. of Chr. Biomed. Eng., Grad. Sch. of Med. Sci., Tottori Univ., ⁵⁾Chr. Eng. Group, ExCELLS., ⁶⁾Sch. of Life Sci., Facul. of Med., Tottori Univ., ⁷⁾Institute of Medicine, University of Tsukuba

WS01-04-O/P

Similar autoreactive regulatory T cell clones are selected during early ontogeny and expand under homeostatic perturbations

○ Reiko Tsukazaki, Ryuichi Murakami, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS01-05-O/P

Mucosal-associated invariant T cells recognize an intermediary metabolite involved in the DNA synthetic pathway

○ Yanqi Xue¹⁾, Chihiro Fukui¹⁾, Ryosuke Takasaki²⁾, Shinsuke Inuki²⁾, Daisuke Motooka⁴⁾, Emi Ito⁵⁾, Koji Tamada³⁾, Makoto Furutani-Seiki⁶⁾, Kei Sakamoto⁷⁾, Koh-Hei Sonoda¹⁾, Sho Yamasaki⁵⁾, Kensuke Shibata⁸⁾

¹⁾Department of Ophthalmology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, 812-8582, Japan, ²⁾Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, 606-8501, Japan, ³⁾Department of Immunology, Graduate School of Medicine, Yamaguchi University, Yamaguchi, 753-8511, Japan, ⁴⁾NGS core facility, Bioinformatics Center, Research Institute for Microbial Diseases, The University of Osaka, Suita, 565-0871, Japan, ⁵⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, Suita, 565-0871, Japan, ⁶⁾Systems Biochemistry in Pathology and Regeneration, Graduate School of Medicine, Yamaguchi University, Ube, 753-8511, Japan, ⁷⁾Department of Microbiology and Immunology, Graduate School of Medicine, Yamaguchi University, Ube, 753-8511, Japan, ⁸⁾Department of Visual Regeneration, Graduate School of Medical Sciences, Kyushu University, Fukuoka, 812-8582, Japan

Identification of conserved CD1b motif (RExxD) that restricts biased TCR β of unconventional T cells○ Minori Asa¹⁾, Yuki Sakai¹⁾, Mika Hirose²⁾, Masamichi Nagae^{1,3)}, Go Hirai⁴⁾, Takayuki Kato^{2,6)}, Sho Yamasaki^{1,3,5,6)}¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, Japan, ²⁾Laboratory for CryoEM Structural Biology, Institute for Protein Research, The University of Osaka, Japan, ³⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, Japan, ⁴⁾Graduate School of Pharmaceutical Sciences, Kyushu University, Japan, ⁵⁾Center for Infectious Disease Education and Research (CiDER), The University of Osaka, Japan, ⁶⁾Center for Advanced Modalities and Drug Delivery Systems (CAMA-D), The University of Osaka, Japan**WS02 Tumor Immunity - Innate response**

14:00 ~ 15:15 Room B

Chairpersons: Hideyuki Yanai, Mariko Ishibashi

“Tumor immunity” has emerged as one of the most prominent areas within the field of immunology in recent years. This heightened attention is largely attributable to the successful clinical introduction of immune checkpoint inhibitors, which has facilitated the accumulation of not only basic research findings but also substantial clinical data. At the same time, steady progress has been made in other established areas of tumor immunity beyond immune checkpoint research. This year’s “Tumor immunity” workshop is organized into four subcategories, encompassing a broad range of topics. In this session, we will focus primarily on studies examining “Innate immune responses”, highlighting their roles and mechanisms in tumor immunity. We look forward to active and stimulating discussions.

Human SIRP α antibody monotherapy activates human macrophages to suppress renal cell carcinoma growth in a humanized mouse model○ Tania Afroj^{1,2)}, Tomoko Takai²⁾, Takenori Kotani³⁾, Yoji Murata³⁾, Ikumi Katano⁴⁾, Yuchi Iida¹⁾, Takeshi Takahashi⁴⁾, Takashi Matozaki²⁾, Yasuyuki Saito^{1,2)}¹⁾Department of Immunology, Faculty of Medicine, Shimane University, ²⁾Division of Biosignal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan, ³⁾Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan, ⁴⁾Department of Basic Research for Laboratory Animals, Central Institute for Experimental Medicine and Life Science, Kawasaki, Japan**The role of thymic pDC in tumor immune tolerance**○ Yangsong Wang, Ryo Nasu, Yukihiro Endo, Motoko Y Kimura
Chiba University**Tumor-Infiltrating Mast Cells Are Associated With Better Efficacy Of Neoadjuvant Therapy By Modulating Desmoplastic Microenvironment**○ Xiangmei Zhang^{1,3)}, Yunjiang Liu²⁾, Jidong Zhao³⁾¹⁾Cancer Institute of Hebei Province, Fourth Hospital of Hebei Medical University, Shijiazhuang City, 050011, China, ²⁾Department of Breast Center, Fourth Hospital of Hebei Medical University, Shijiazhuang 050011, China, ³⁾Department of Thoracic Surgery, Fourth Hospital of Hebei Medical University, Shijiazhuang 050011, China**Loss of Histone Methyltransferase Ezh2 Exacerbates Polarization of Macrophages toward M2-Like Phenotypes by Hepatocellular Carcinoma**○ Tanapat Palaga^{1,4)}, Kittin Weerasopon¹⁾, Atsadam Boonmee²⁾, Patipark Kueanjinda³⁾¹⁾Faculty of Science, Chulalongkorn University, ²⁾Faculty of Medicine Siriraj Hospital, Mahidol University, ³⁾Department of Pathology, UMass Chan Medical School, University of Massachusetts Worcester, ⁴⁾Center of Excellence in Immunology and Immune-Mediated Diseases, Chulalongkorn University**Abscopal Effect of Oncolytic HSV-1 is Dependent on Plasmacytoid Dendritic Cells**○ Shumpei Uchida¹⁾, Hiroyuki Kubo¹⁾, Katsuaki Sato²⁾, Ryutaro Fukui³⁾, Kensuke Miyake³⁾, Tomoki Todo³⁾, Norimitsu Kadowaki¹⁾¹⁾Division of Hematology, Rheumatology and Respiratory Medicine, Faculty of Medicine, Kagawa University, ²⁾Division of Immunology, Faculty of Medicine, University of Miyazaki, ³⁾Division of Infectious Genetics, Institute of Medical Science, the University of Tokyo**Cancer immunotherapy using CCL19-expressing allogeneic mesenchymal stem cells exerts robust anti-tumor effects in mouse model**

○ Yuichi Iida, Mamoru Harada, Yasuyuki Saito

Shimane University, Faculty of Medicine, Department of Immunology

Adenosine-Induced Regnase-1 Expression in Tumor-Associated Macrophages Suppresses T Cell Anti-Tumor Activity

○ Xingyu Rong¹⁾, Hai Wang²⁾, Osamu Takeuchi¹⁾

¹⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ²⁾Key Laboratory of Breast Cancer in Shanghai, Department of Breast Surgery, Fudan University Shanghai Cancer Center, Shanghai Medical College, Fudan University, Shanghai, P.R. China

WS03 Hematopoiesis and diseases

14:00 ~ 15:15 Room C

Chairpersons: Kyoko Ochiai, Takuya Uehata

Hematopoietic stem cells (HSCs) can give rise to all hematopoietic lineage cells, including lymphocytes, erythrocytes, and myeloid cells. During the differentiation processes from HSCs into various cell lineages, lineage-specific gene expression programs are established through transcriptional and epigenetic mechanisms and are further shaped by environmental cues. Recent studies have clearly demonstrated the importance of post-transcriptional regulation, including mRNA maturation, stability, and translation, in hematopoiesis. Dysregulation of these processes can impair HSC function and hematopoietic cell development, leading to disease. In this workshop, we will share and discuss new findings and technologies to improve our understanding of the fundamental mechanisms of hematopoiesis and related diseases.

The codon usage sensor DHX29 maintains hematopoietic stem cell quiescence

○ Ting Cai, Masanori Yoshinaga, Osamu Takeuchi

Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

Development of Irradiation-Free Mouse bearing Fully Xenogeneic blood System by Intraplacental Transplantation and RUNX1 Deficiency

○ Chingwei Liao^{1,3,4)}, Hyojung Jeon²⁾, Michito Hamada^{1,4)}, Satoru Takahashi^{1,4)}

¹⁾University of Tsukuba, ²⁾Division of Cell Regulation, Center for Experimental Medicine and Systems Biology, The Institute of Medical Science, The University of Tokyo, ³⁾Human Biology Program, University of Tsukuba, ⁴⁾Department of Anatomy and Embryology, University of Tsukuba

Transcription factor trinity, E2A, Ebf1 and Erg, guides B cell fate: Insights from Single-Cell RNA-Seq

○ Rinako Hayashi¹⁾, Reiko Hidaka¹⁾, Kazuko Miyazaki¹⁾, Takashi Nagasawa²⁾, Hiroshi Kawamoto¹⁾, Masaki Miyazaki¹⁾

¹⁾Institute for Life and Medical Sciences, Kyoto University, ²⁾Graduate School of Frontier Biosciences, The University of Osaka

Non-canonical PRC1 complexes are required for lymphoid lineage specification

○ Mayumi Hirakawa, Lisa Hirano, Tomokatsu Ikawa

Tokyo University of Science

CB2 Receptor Signaling and Its Impact on Immune cells via HSPC Populations

○ Nuzat Tabassum Islam¹⁾, Toru Asahi^{1,2,3)}, Chihiro Nozaki^{1,4)}, Haruka Hosoki¹⁾

¹⁾Department of Life Science and Medical Bioscience, School of Advanced Science and Engineering, Waseda University, ²⁾Comprehensive Research Organization, Waseda University, ³⁾Research Organization for Nano and Life Innovation, Waseda University, ⁴⁾Global Center for Science and Engineering, Waseda University

Angiopoietin-like 4 regulates the pathogenesis of pulmonary fibrosis via the phenotypic conversion between myofibroblast and lipofibroblast

○ Masahiro Kitabatake¹⁾, Atsushi Hara¹⁾, Kaito Yasuike¹⁾, Ryutaro Furukawa¹⁾, Akihisa Oda²⁾, Noriko Oujii-Sageshima¹⁾, Toshihiro Ito¹⁾

¹⁾Department of Immunology, Nara Medical University, ²⁾Department of Pediatrics, Nara Medical University

A Dual-Targeting Strategy to Inhibit the Development of Neutralizing Anti-FVIII Antibodies in a Murine Model of Hemophilia A

○ Akihisa Oda¹⁾, Kenichi Ogiwara¹⁾, Masahiro Kitabatake²⁾, Noriko Oujii-Sageshima²⁾, Atsushi Hara²⁾, Kaito Yasuike²⁾, Toshihiro Ito²⁾, Keiji Nogami¹⁾

¹⁾Department of Pediatrics, Nara Medical University, ²⁾Department of Immunology, Nara Medical University

The complex interplay between immune cells and non-immune cells contributes to the pathogenesis of arthritis as well as tissue fibrosis in organs such as the lung. Understanding the molecular mechanisms of autoimmune responses and the intricate multi-cellular networks in the tissue microenvironment is crucial for developing effective preventive and therapeutic strategies. This session is dedicated to fostering a comprehensive discussion and advancing our understanding of the complex immunological mechanisms underpinning arthritis and fibrosis, with a focus on lymphocytes, myeloid cells, fibroblasts, autoantigens, cytokines, and microbial influences.

WS04-01-O/P

GM-CSF controls pathogenic function of Ly6Chi monocyte-derived macrophages crucial for synovial inflammation in autoimmune arthritis

○ Hiroki Mukoyama^{1,2}, Yusuke Takeuchi^{1,2}, Daiya Ohara¹, Yoonha Lee¹, Hitomi Watanabe¹, Gen Kondoh¹, Akio Morinobu², Keiji Hirota¹

¹Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, ²Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University

WS04-02-O/P

Aging-related alterations of effector CD4+ T cells in arthritis model mice

○ Shusuke Tanaka, Taihei Nishiyama, Airi Kondo, Ayako Ohyama, Hiromitsu Asashima, Haruka Miki, Yuya Kondo, Hiroto Tsuboi, Isao Matsumoto

Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS04-03-O/P

Exploring the epigenomic landscapes of synovial fibroblast diversification in rheumatoid arthritis by single-nucleus multi-omics analyses

○ Reo Yamazato¹, Risa Yoshihara¹, Ikuo Takazawa¹, Sotaro Nakajima¹, Yasunori Omata², Sakae Tanaka², Tomohisa Okamura³, Haruka Tsuchiya¹, Keishi Fujio¹

¹Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ²Department of Orthopaedic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ³Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

WS04-04-O/P

Neoself IgG is a Primary Antigen Driving the Clonal Expansion of Autoreactive T Cells in Rheumatoid Arthritis

○ Jing Yang^{1,2}, Shunsuke Mori¹, Hui Jin¹, Hiroyuki Yoshitomi^{3,4}, Hideki Ueno^{3,4}, Hisashi Arase^{1,2}

¹Department of Immunochimistry, Research Institute for Microbial Diseases, The University of Osaka, ²World Premier International Immunology Frontier Research Centre, The University of Osaka, ³Department of Immunology, Graduate School of Medicine, Kyoto University, ⁴Institute for the Advanced Study of Human Biology, Kyoto University

WS04-05-O/P

Using Tocilizumab to Treat Castleman Disease and Rheumatoid Arthritis:Blocking IL-6 Improves pathology of Diseases with different Etiologies

○ Kazuko Uno¹, Kazuyuki Yoshizaki²

¹Louis Pasteur Center for Medical Research, ²The Institute of Scientific and Industrial Research, SANKEN, The University of Osaka

WS04-13-O/P

RANKL controls vascular permeability in bone marrow sinusoids

○ Takeshi Kaneko^{1,2,3}, Shinya Yari¹, Junichi Kikuta^{1,3,4}, Atsushi Kumanogoh^{2,3}, Masaru Ishii^{1,3}

¹Department of Immunology and Cell Biology, Graduate School of Medicine and Frontier Biosciences, The University of Osaka, Osaka, Japan.,

²Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, The University of Osaka, Osaka, Japan.,

³WPI-Immunology Frontier Research Center, The University of Osaka, Osaka, Japan., ⁴Division of Immunology, Department of Future Medical Sciences, Graduate School of Medicine, Kobe University, Hyogo, Japan.

WS04-14-O/P

Microbiota-derived peptide corisin promotes cellular senescence in podocytes

○ Tomoko Ano¹, Taro Yasuma^{1,2}, Valeria Fridman¹, Corina Gabazza¹, Atsuro Takeshita^{1,2}, Yuko Okano², Chisa Inoue², Kota Nishihama², Masaaki Toda¹, Esteban Gabazza¹

¹Department of Immunology, Mie University Graduate School of Medicine, ²Department of Diabetes & Endocrinology, Mie University Graduate School of Medicine

The skin and mucosal surfaces represent dynamic immunological interfaces where epithelial and immune cells orchestrate diverse protective and pathological responses. This session highlights recent advances in our understanding of skin and mucosal immunity, focusing on epithelial-immune interactions, the integration of innate and adaptive responses, and cytokine signaling networks. Presentations address mechanisms underlying inflammatory disorders such as psoriasis and atopic dermatitis, as well as novel approaches including oral vaccination strategies. Together, these studies provide new insights into barrier immunity and identify potential therapeutic targets for chronic inflammatory and infectious diseases.

WS05-01-O/P

Keratinocyte Cx26 Gain-of-Function Mutation Compromises Anti-Candida Skin Defense via Impaired Sensing and Chemokine Production

○ Alshimaa Mostafa¹⁾, Teruasa Murata²⁾, Akihiko Kitoh¹⁾, Kenji Kabashima¹⁾

¹⁾Department of Dermatology, Kyoto University Graduate School of Medicine, Japan, ²⁾Department of Dermatology, Hyogo Medical University, Japan

WS05-04-O/P

Identification of an Atypical Keratinocyte Subset as the Primary Source of IL-23 in Psoriatic Skin Inflammation

○ Yoonha Lee¹⁾, Daiya Ohara^{1,2)}, Hiroki Mukoyama^{1,3)}, Yusuke Takeuchi^{1,3)}, Kazuki Sakatoku¹⁾, Hitomi Watanabe¹⁾, Akinori Takaoka⁴⁾, Toshiaki Ohteki⁵⁾, Junji Takeda⁶⁾, Gen Kondoh¹⁾, Hideo Harigae⁷⁾, Keiji Hirota^{1,8)}

¹⁾Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan., ²⁾The Hakubi Center for Advanced Research, Kyoto University, Kyoto, Japan, ³⁾Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ⁴⁾Division of Signaling in Cancer and Immunology, Institute for Genetic Medicine, Hokkaido University, Hokkaido, Japan, ⁵⁾Department of Biodefense Research, Medical Research Laboratory, Institute of Integrated Research, Institute of Science Tokyo, ⁶⁾Research Institute for Microbial Diseases, The University of Osaka, Osaka, Japan, ⁷⁾Department of Hematology, Tohoku University Hospital, Sendai, Japan., ⁸⁾ImmunoSensation Cluster of Excellence, University of Bonn, Bonn, Germany

WS05-06-O/P

Spatial reconstitution of inducible skin-associated lymphoid tissue (iSALT) uncovers local crosstalk between CD301b+ cDC2 and CD8+ T cell in contact dermatitis

○ Fuuka Minami¹⁾, Ryota Asahina^{1,2)}, Akiyoshi Senda¹⁾, Gyohei Egawa³⁾, Satoshi Nakamizo¹⁾, Kenji Kabashima¹⁾

¹⁾Department of Dermatology, Kyoto University, ²⁾Center for One Medicine Innovative Translational Research (COMIT), Gifu University, ³⁾Department of Dermatology, Kagoshima University

WS05-07-O/P

CXCL16–CXCR6 axis anchors epidermal CD8⁺ TRM cells to promote recall responses in a contact hypersensitivity model

○ Takahide Iioka¹⁾, Ryota Asahina^{1,2)}, Fuuka Minami¹⁾, Toshiya Miyake¹⁾, Kenji Kabashima¹⁾

¹⁾Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾Center for One Medicine Innovative Translational Research, Gifu University, Gifu, Japan

WS05-12-O/P

Dry skin-associated neonatal immune dysregulation in Langerhans cells triggers atopic dermatitis development

○ Tomoka Ito¹⁾, Reika Aoyama¹⁾, Seitaro Nakagawa^{1,2)}, Naohiro Inohara³⁾, Yoko Ichikawa⁴⁾, Naoki Shimojo⁵⁾, Manabu Fujimoto^{1,6)}, Yumi Matsuoka-Nakamura^{1,2,7)}

¹⁾Department of Dermatology, Graduate School of Medicine, The University of Osaka, ²⁾Department of Cutaneous Immunology and Microbiology, Graduate School of Medicine, The University of Osaka, ³⁾Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, ⁴⁾Ichikawa Clinic, ⁵⁾Center for Preventive Medical Sciences, Chiba University, ⁶⁾Cutaneous Immunology, Immunology Frontier Research Center, The University of Osaka, ⁷⁾Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, The University of Osaka

WS05-13-O/P

Constipation-Induced Gut Dysbiosis Aggravates Acne through Tryptophan Metabolites Depletion

○ Masakazu Tamai^{1,2)}, Takashi Sugihira^{1,2)}, Manabu Fujimoto^{1,3)}, Yumi Matsuoka-Nakamura^{1,2)}

¹⁾Department of Dermatology, Graduate School of Medicine, The University of Osaka, ²⁾Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, The University of Osaka, ³⁾Cutaneous Immunology, Immunology Frontier Research Center, The University of Osaka

WS05-14-O/P

Th17-Derived RANKL Drives Club-to-M Cell Transdifferentiation to Aggravate Secondary Bacterial Pneumonia

○ Shunsuke Kimura^{1,2}, Shingo Kawai¹, Takahiro Yamada¹, Yutaka Nakamura¹, Koji Hase¹

¹Faculty of Pharmaceutical Sciences, Hokkaido University, ²Division of Biochemistry, Faculty of Pharmacy and Graduate School of Pharmaceutical Science, Keio University

WS05-16-O/P

Alcaligenes lipid A acts as a potent sublingual vaccine adjuvant to augment protective immune responses both in the respiratory and gastrointestinal tracts

○ Ken Yoshii¹, Yuki Hirayama^{1,2}, Keigo Iemitsu^{1,3}, Hiroshi Kiyono^{4,5,6}, Jun Kunisawa^{1,2,3,4,7,8,9,10}

¹National Institutes of Biomedical Innovation, Health and Nutrition, ²Graduate School of Pharmaceutical Sciences, The University of Osaka, ³Graduate School of Medicine, The University of Osaka, ⁴International Research and Development Center for Mucosal Vaccines, The Institute of Medical Science, The University of Tokyo, ⁵Division of Gastroenterology, Department of Medicine, University of California San Diego (UCSD) School of Medicine, UC San Diego, ⁶Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa), Chiba University, ⁷Graduate School of Science, The University of Osaka, ⁸Graduate School of Dentistry, The University of Osaka, ⁹Graduate School of Medicine, Kobe University, ¹⁰Research Organization for Nano and Life Innovation, Waseda University

WS06 B cell development, activation, and antibody production

14:00 ~ 15:15 Room F

Chairpersons: Wataru Ise, Saya Moriyama

B cells play a central role in humoral immunity in concert with helper T cells. B cells undergo multiple stages of differentiation before and after becoming mature B cells. Upon antigen stimulation, B cells become activated, undergo class-switching, and further differentiate into plasma cells, which are specialized effectors that secrete antibodies to sustain humoral immunity. In this workshop, we will highlight recent advances in B cell development and activation, T cell-independent B cell responses, and antibody production, with particular focus on self-reactive antibodies.

WS06-01-O/P

The interplay between transcription factors E2A and Erg shapes the enhancer landscape underlying B cell identity and signature gene expression

○ Reiko Hidaka^{1,2}, Kazuko Miyazaki^{1,2}, Hiroshi Kawamoto^{1,2}, Masaki Miyazaki^{1,2}

¹Kyoto University, ²Institute for Life and Medical Sciences

WS06-02-O/P

In vivo acute degradation of E2A reveals its enhancer regulations in early lymphocyte development and activation

○ Rei Kuwata¹, Kazuko Miyazaki¹, Hitomi Watanabe¹, Ichiro Taniuchi², Hiroshi Kawamoto¹, Masaki Miyazaki¹

¹Kyoto University, ²RIKEN Center for Integrative Medical Sciences

WS06-03-O/P

EMC1 enforces an ER-integrated checkpoint for B cell activation and humoral immunity

○ Kazuhiko Kawata, Yoshihiro Baba

Division of Immunology and Genome Biology, Medical Institute of Genome Bioregulation, Kyushu University

WS06-04-O/P

CD72 is a novel C1q receptor that inhibits B cell responses to apoptotic cells, crucial in the development of SLE

○ Hashadi Nadeesha Walakulu Gamage^{1,2}, Takeshi Tsubata^{1,2}, Nadeesha Gayathri Hewassa Gamage¹, Chizuru Akatsu¹, Tsuneshige Takahiro¹, Nobutaka Numoto¹, Masatake Asano², Nobutoshi Ito¹

¹Institute of Science Tokyo, ²Department of Pathology, Nihon University

WS06-09-O/P

The importance of IL-1 - IL-1 receptor signaling to T-cell-independent type 2 responses

○ Mari Tenno, Daisuke Kitamura

Tokyo University of Science

In vivo conversion to broader and non-self-reactive influenza virus-specific antibody

○ Chieko Okamura^{1,2)}, Hikaru Hata^{2,3)}, Takashi Watanabe⁴⁾, Mikako Shirouzu⁵⁾, Ryota Sato^{2,3)}, Qingshun Lin²⁾, Taishi Onodera⁶⁾, Yoshimasa Takahashi⁶⁾, Quan-Zhen Li⁷⁾, Yoshinobu Okuno⁸⁾, Tomohiro Kurosaki^{2,9)}, Hidehiro Fukuyama^{1,2,3,10)}

¹⁾Division of Immunology, Near Infrared Photo-ImmunoTherapy Research Institute, Kansai Medical University, Hirakata, Osaka 573-1010, Japan, ²⁾Laboratory for Lymphocyte Differentiations, RIKEN Center for Integrative Medical Sciences (IMS), Yokohama, Kanagawa 230-0045, Japan, ³⁾Cellular Systems Laboratory, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Kanagawa 230-0045, Japan, ⁴⁾Laboratory for Integrative Genomics, RIKEN IMS, Yokohama, Kanagawa 230-0045, Japan, ⁵⁾Laboratory for Protein Functional and Structural Biology, RIKEN IMS, Yokohama, Kanagawa 230-0045, Japan, ⁶⁾Research Center for Vaccine Development, National Institute of Infectious Diseases, Japan Institute for Health Security, Tokyo 162-8640, Japan, ⁷⁾Genecopoeia Inc., Rockville, MD 20850, USA, ⁸⁾Osaka Institute of Public Health, Osaka, 537-0025, Japan, ⁹⁾Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, The University of Osaka, Osaka 565-0871, Japan, ¹⁰⁾INSERM EST, Strasbourg Cedex 2, 67037, France

Identification of autoantibodies promoting remyelination in aging

○ Ayame Nagafuchi¹⁾, Mana Iizuka²⁾, Ako Matsui¹⁾, Akihiko Yoshimura²⁾, Minako Ito¹⁾

¹⁾Kyushu University, ²⁾Tokyo University of Science

WS07 Tolerance and Immune Suppression

14:00 ~ 15:15 Room G

Chairpersons: Akihiro Yoshimura, Ryoji Kawakami

Our immune system employs mechanisms to induce immunological tolerance by suppressing excessive response to antigens that should be accepted, such as self-antigens and commensal bacteria. This workshop will engage in a cross-disciplinary discussion of the diverse mechanisms that comprise Tolerance and Immune Suppression. We highlight current cutting-edge research on the differentiation, function, and mechanisms of antigen-specific immune suppression by regulatory T (Treg) cells. In addition, we will focus on the environmental cues that promote Treg cells and tolerance induction, including development of the thymus, which governs T cell differentiation and clonal selection, as well as on the functional and developmental programs of antigen-presenting cells in the tissue microenvironment.

Targeted cell by Treg suppression in vitro and in vivo

○ Yoshihiro Oya^{1,2,4)}, Takuya Nakazawa²⁾, Ryutaro Matsumura²⁾, Hiroshi Nakajima³⁾, Ethan M Shevach⁴⁾

¹⁾Laboratory of Autoimmune diseases, NHO Chiba Medical Center Chibahigashi National Hospital, ²⁾Allergy & Clinical Immunology, National Hospital Organization Chibahigashi National Hospital, ³⁾Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, ⁴⁾Laboratory of Immune System Biology, National Institute of Allergy and Infectious Diseases, National Institutes of Health

A Foxp3-dependent core epigenetic and transcriptional program in Tregs

○ Yuxi Wei, Ryuichi Murakami, Akira Nakajima, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

Runx/Cbfb regulates the development of tolerogenic Thetis cells

○ Chihiro Ogawa, Ichiro Taniuchi

RIKEN Center for Integrative Medical Sciences

Combinatorial analysis of spatial transcriptomics and scRNA-Seq reveals the influence of aging on the differentiation program of thymic epithelial cells

○ Kano Namiki^{1,2)}, Takahisa Miyao¹⁾, Nobuko Akiyama^{1,2)}, Taishin Akiyama^{1,2)}

¹⁾RIKEN Center for Integrative Medical Sciences, ²⁾Laboratory of Immunobiology, Graduate School of Medical Life Science, Yokohama City University

Gravity reduction leads to upregulation of the transcription factor ELF3 in the thymus, which disrupts the thymic epithelial cell differentiation program

○ Wataru Muramatsu¹⁾, Nobuko Akiyama^{1,2)}, Takahisa Miyao¹⁾, Masafumi Muratani³⁾, Takashi Kudo⁴⁾, Satoru Takahashi⁴⁾, Taishin Akiyama^{1,2)}

¹⁾Laboratory for Immune Homeostasis, RIKEN Center for Integrative Medical Science, ²⁾Immunobiology, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Japan, ³⁾Department of Genome Biology, Transborder Medical Research Center, Institute of Medicine, University of Tsukuba, ⁴⁾Laboratory Animal Resource Center in Transborder Medical Research Center, and Department of Anatomy and Embryology, Institute of Medicine, University of Tsukuba

Immunopeptidomic identification of SLA-derived HLA class II ligands recognized by human T cells, using a strategy adapted for xenotransplantation

○ Kenta Iwasaki¹⁾, Ken Kawasa²⁾, Susumu Tomono³⁾, Yuko Miwa¹⁾, Masato Shizuku²⁾, Satoshi Ashimine²⁾, Kohei Ishiyama²⁾, Ekser Burcin⁴⁾, Sachiko Akashi-Takamura³⁾, Takaaki Kobayashi²⁾

¹⁾Department of Kidney Diseases and Transplant Immunology, Aichi Medical University School of Medicine, Nagakute, Aichi, Japan.,

²⁾Department of Renal Transplant Surgery, Aichi Medical University School of Medicine, Nagakute, Aichi, Japan., ³⁾Department of Microbiology and Immunology, Aichi Medical University School of Medicine, Nagakute, Aichi, Japan., ⁴⁾Division of Abdominal Transplant Surgery, Stritch School of Medicine, Loyola University Chicago, Maywood, Illinois, USA.

Function of ectopic MHC class II expression on non-immune cells in immune response

○ Wataru Nakai^{1, 2)}, Hisashi Arase^{1, 2, 3, 4, 5)}

¹⁾Department of Immunochimistry, Research Institute for Microbial Diseases, The University of Osaka, ²⁾Laboratory of Immunochimistry, WPI Immunology Frontier Research Center, The University of Osaka, ³⁾Regulation of Host Defense Team, Center for Infectious Disease Education and Research, The University of Osaka, ⁴⁾Center for advanced modalities and DDS, The University of Osaka, ⁵⁾Center for Infectious Disease Education and Research, The University of Osaka

WS08 CD8+ T cell immunity

15:25 ~ 16:40 Room A

Chairpersons: Shiki Takamura, Aneela Nomura

CD8+ T cells are vital for the host defense against infection and cancer. Depending on the context, they differentiate into distinct memory subsets with tailored functions or may enter a state of exhaustion, losing their effector functions. In some circumstances, CD8+ T cells can also contribute to tissue damage and pathogenesis, highlighting their dual nature in immunity and disease. Hence, understanding the key processes regulating the function and metabolic state of CD8+ T cells will uncover strategies to improve their immunity against both pathogenic and malignant diseases and can also have further counterapplications for treating autoimmune diseases. In this workshop, we will showcase 7 abstracts for oral presentation, which will all explore the molecular mechanisms of effector/memory CD8+ T cell differentiation and dissect the environments supporting their immune functions.

TAP-independent induction of N-myristoylated lipopeptide-specific CTLs in transgenic mice expressing rhesus lipopeptide-presenting MHC class I molecules

○ Hiromu Suzuki^{1, 2)}, Daisuke Morita¹⁾

¹⁾Laboratory of Cell Regulation, Institute for Life and Medical Sciences, Kyoto University, ²⁾Laboratory of Cell Regulation and Molecular Network, Graduate School of Biostudies, Kyoto University

Strategy for achieving both safety and efficacy of CTL-inducing vaccines using a low molecular drug

○ Kensuke Takada¹⁾, Zimeng Cai^{2, 3)}, Mina Kozai¹⁾, Kazuhiro Matsuo¹⁾

¹⁾Institute for Vaccine Research and Development, Hokkaido University, ²⁾Faculty of Veterinary Medicine, Hokkaido University, ³⁾Shanghai Immune Therapy Institute Shanghai, Jiao Tong University

Vitamin C transporter 2, Slc23a2, is required for normal T cell development and optimal CD8+ T cell immune responses

○ Kenta Kondo¹⁾, Mina Kumode^{1, 2)}, Tatsuya Hasegawa¹⁾, Noriyuki Sugo³⁾, Yasutoshi Agata¹⁾

¹⁾Department of Biochemistry and Molecular Biology, Shiga University of Medical Science, ²⁾Department of Hepatology, Shiga University of Medical Science, Shiga, Japan, ³⁾Graduate School of Frontier Biosciences, The University of Osaka

MHC class II restrains colonic CD8 T cell activation via CD4 T cells and LAG-3

○ Tomoya Sengiku¹⁾, Masato Kubo^{2, 3)}, Takumi Maruhashi⁴⁾, Taku Okazaki⁴⁾, Shohei Hori¹⁾, Ruka Setoguchi¹⁾

¹⁾Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, ²⁾Research Institute for Biomedical Science, Tokyo University of Science, ³⁾Research Center for Integrative Medical Science (IMS), RIKEN Yokohama Institute, ⁴⁾Laboratory of Molecular Immunology, Institute for Quantitative Bioscience, The University of Tokyo

Dysfunctional Mitochondria Promotes DNA Damage and T Cell Exhaustion in CD8+ T Cells

○ Kung-Chi Kao, Yu-Ming Chuang, Ping-Chih Ho

University of Lausanne

WS08-06-O/P

Single-Cell and Spatial Transcriptomics Reveal Distinct Immune Features in Oral squamous cell carcinoma and IgG4-Related Disease

○ Ling Zhang¹⁾, Takashi Maehara^{1,2)}, Marina Koga¹⁾, Risako Koga¹⁾, Ryuichi Aoyagi¹⁾, Yuuka Toda¹⁾, Ryusuke Munemura¹⁾, Shintaro Kawano¹⁾

¹⁾Section of Oral and Maxillofacial Oncology, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University, Fukuoka, Japan, ²⁾Dent-craniofacial Development and Regeneration(DDR)Research Center, Faculty of Dental Science, Kyushu University, Fukuoka, Japan

WS08-07-O/P

Bystander expansion of GzmK⁺GzmB⁺ CD8 T cells in the joint of rheumatoid arthritis

○ Takahiro Natori¹⁾, Hisakata Yamada²⁾, Ryosuke Tsurui¹⁾, Shinya Kawahara¹⁾, Yukio Akasaki¹⁾, Yasuharu Nakashima¹⁾

¹⁾Department of Orthopedic Surgery, Kyushu University, ²⁾Department of Immunology, Kochi University

WS09 Tumor Immunity - Microenvironment

15:25 ~ 16:40 Room B

Chairpersons: Ken-ichiro Seino, Maiko Hajime-Sumikawa

“Tumor immunity” has emerged as one of the most prominent areas within the field of immunology in recent years. This heightened attention is largely attributable to the successful clinical introduction of immune checkpoint inhibitors, which has facilitated the accumulation of not only basic research findings but also substantial clinical data. At the same time, steady progress has been made in other established areas of tumor immunity beyond immune checkpoint research. This year’s “Tumor immunity” workshop is organized into four subcategories, encompassing a broad range of topics. In this session, we will focus primarily on studies examining “Microenvironment”, highlighting its roles and mechanisms in tumor immunity. We look forward to active and stimulating discussions.

WS09-03-O/P

Redistribution of Intratumoral Iron with Polymeric Iron Chelator Boosts Antitumor Immunity

○ Haochen Guo¹⁾, Nobuhiro Nishiyama^{1,2,3)}, Takahiro Nomoto⁴⁾

¹⁾Innovation Center of Nanomedicine (iCONM), Kawasaki Institute of Industrial Promotion, ²⁾Department of Life Science and Technology, School of Life Science and Technology, Institute of Science Tokyo, ³⁾Laboratory for Chemistry and Life Science, Institute of Integrated Research, Institute of Science Tokyo, ⁴⁾Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo

WS09-04-O/P

Hierarchical immune suppression by Tregs via TGFβ1-induced macrophage programming_x000D_in cancers

○ Qiao Gou, Hiroyuki Takaba, Hiroshi Takayanagi

The University of Tokyo

WS09-07-O/P

Expanding the Application of IgNAR Antibodies derived from Shark for Next-next-generation Cancer Antibody Therapeutics

○ Yuki Nitta^{1,2)}, Wataru Takagi³⁾, Susumu Hyodo³⁾, Masahiro Yasunaga^{1,2)}

¹⁾The University of Tokyo, Graduate School of Frontier Sciences, ²⁾National Cancer Center, ³⁾The University of Tokyo, Atmosphere and Ocean Research Institute

WS09-10-O/P

Induction of tertiary lymphoid structures via chemokine-based immunotherapy for solid tumors

○ Taro Suzuki, Keitaro Kanie, Tomoko Ishii, Shin Kaneko

Kyoto University

WS09-11-O/P

The effect of acrolein on anti-tumor effects and its relationship with ferroptosis

○ Koki Ichimaru, Koji Kitaoka, Yasuharu Haku, Tomonori Yaguchi, Tasuku Honjo, Kenji Chamoto

Department of Immunotherapy and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University School of Medicine

WS09-14-O/P

Modulation of the tumor microenvironment by allogeneic cell transfer enhances PD-1 blockade efficacy via inhibition of T cell exhaustion

○ Ryotaro Imagawa, Tomonori Yaguchi, Tasuku Honjo, Kenji Chamoto

Kyoto University

Repetitive Fasting-Refeeding Synergizes with Metformin to Promote CXCR6+ CD8T cell Migration to Tumors via VCAM-1 on Normalized Tumor Vasculature in the Refeeding Phase

○ Weiyang Zhao¹⁾, Miho Tokumasu¹⁾, Mikako Nishida²⁾, Natsumi Imano¹⁾, Nahoko Yamashita²⁾, Heiichiro Udono²⁾

¹⁾Department of Immunology, Okayama University Faculty of Medicine, Dentistry and Pharmaceutical Sciences, ²⁾Department of Metabolic Immune Regulation, Okayama University Faculty of Medicine, Dentistry and Pharmaceutical Sciences

WS10 Thymus and lymph nodes

15:25 ~ 16:40 Room C

Chairpersons: Izumi Ohigashi, Masaki Miyazaki

The thymus and lymph nodes (LNs) provide the microenvironment necessary for the generation and activation of T cells. In the thymus, immature T cells develop and undergo selection, in which “immunocompetent” and “self-tolerant” T cells are generated through positive and negative selection, based on the strength of T cell receptor signaling. Additionally, “agonist-selection” is important for the generation of regulatory T cells and innate-like T cells such as NKT cells. Following thymic egress, T cells migrate to the LNs, where they encounter specific antigens presented by dendritic cells and become activated. In this workshop, we will share and discuss current findings to advance our understanding of the precise mechanisms of T cell selection in the thymus, as well as its migration and activation in LNs in mice and humans, and their implications for next-generation T cell therapy.

WS10-01-O/P

Roles of TIR1-mediated iron homeostasis in the initiation of T-lineage program

○ Yuichi Kama, Hiroyuki Hosokawa

Department of Immunology, Tokai University School of Medicine

WS10-02-O/P

CD69 regulates agonist TCR signaling

○ Yukihiro Endo, Nanako Yasujima, Tatsuya Ueno, Taiyo Sasayama, Motoko Y. Kimura

Graduate School of Medicine, Chiba University

WS10-03-O/P

Regulation of TCR activation threshold by transcription factor SATB1

○ Taku Naito, Marii Ise, Yuriko Tanaka, Shuhei Mashimo, Michitsune Arita, Taku Kuwabara, Motonari Kondo

Toho University School of Medicine

WS10-04-O/P

Unveiling kinase-transcription factor axis that couples invariant TCR signaling to iNKT cell generation

○ Eri Ishikawa^{1,2)}, Sho Yamasaki^{1,2,3,4)}

¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, ³⁾Center for Infectious Disease Education and Research (CiDER), The University of Osaka, ⁴⁾Center for Advanced Modalities and DDS (CAMaD), The University of Osaka

WS10-05-O/P

Characterization of a spontaneous severe combined immunodeficient strain of mice

○ Masatsugu Oh-hora¹⁾, Daisuke Motooka²⁾, Mio Narita¹⁾, Norikazu Yabuta³⁾, Sho Yamasaki³⁾, Takehiko Yokomizo⁴⁾

¹⁾Dept. of Immunology, Faculty of Medicine, Saitama Medical University, ²⁾NGS core facility, Research Institute of Microbial Diseases, Osaka University, ³⁾Dept. of Molecular Immunology, Research Institute of Microbial Diseases/Immunology Frontier Research Center, The University of Osaka, ⁴⁾Dept. of Biochemistry, Juntendo University School of Medicine

WS10-06-O/P

Generation of human T/NK progenitor cells as a source of CAR-T/NK cell therapy

○ Karin Noma

Tokyo University of Science

WS10-10-O/P

Reconstruction of a lymph node-like structure by transplantation of a centrifuge-based bioengineered lymphatic tissue

○ Shu Obana, Shoko Itakura, Makiya Nishikawa, Kosuke Kusamori

Faculty of Pharmaceutical Sciences, Tokyo University of Science

Cytokines and chemokines orchestrate immunity in diverse physiological and pathological settings—including aging, oral barrier function, infection, cancer, and neurological or vascular disease—while their dysregulation drives chronic inflammation, autoimmunity, and malignancy. Our speakers will reveal mechanisms by which these mediators shape immune cell behavior, guiding migration and controlling inflammation to link local events with systemic outcomes. We will also highlight groundbreaking research, including new insights from single-cell and spatiotemporal profiling, and discuss therapeutic applications in vaccine design, tumor control, and treatment of chronic inflammation. This session aims to integrate core scientific discoveries with translational goals, inspiring the next wave of immune-based therapies. Each presentation will be an 8-minute talk followed by a 2-minute discussion.

WS11-01-O/P

IL-17A+ Treg cells are increased with age, and enhance accumulation of senescent cells in dermis

○ Yuichiro Ogata¹⁾, Takaaki Yamada^{1,2,3)}, Yoshie Ishii^{1,2)}, Masaru Arima³⁾, Yohei Iwata³⁾, Seiji Hasegawa^{1,3,4)}, Kazumitsu Sugiura³⁾, Hirohiko Akamatsu²⁾

¹⁾Research Laboratories, Nippon Menard Cosmetic Co., Ltd., 2-7 Torimi-cho, Nishi-ku, Nagoya, Aichi, Japan., ²⁾Department of Applied Cell and Regenerative Medicine, Fujita Health University School of Medicine, 1-98 Dengakugakubo, Kutsukakecho, Toyoake, Aichi, Japan., ³⁾Department of Dermatology, Fujita Health University School of Medicine, 1-98 Dengakugakubo, Kutsukakecho, Toyoake, Aichi, Japan., ⁴⁾Nagoya University-MENARD Collaborative Chair, Nagoya University Graduate School of Medicine, 65 Tsurumaicho, Showa-ku, Nagoya, Aichi, Japan.

WS11-03-O/P

The immunological crosstalk between IL-33+ ductal cells of von Ebner's glands and ILC2s orchestrates oral barrier function

○ Satoshi Koga¹⁾, Kazuyo Moro^{1,2,3)}

¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Laboratory for Innate Immune Systems, IFRc, The University of Osaka

WS11-10-O/P

Live FluoroSpot: Spatiotemporal Profiling of Cytokine Secretion at Single-Cell Resolution

○ Zhuohao Yang¹⁾, Mai Yamagishi²⁾, Nobutake Suzuki¹⁾, Takumi Adachi³⁾, Koji Nagaoka⁴⁾, Satoshi Yotsumoto⁵⁾, Masato Tanaka⁵⁾, Kazuyo Moro⁶⁾, Kazuhiro Kakimi⁴⁾, Takashi Kamatani⁷⁾, Etsushi Kuroda³⁾, Yoshitaka Shirasaki¹⁾

¹⁾The University of Tokyo, ²⁾Live Cell Diagnosis, Ltd., ³⁾Hyogo Medical University, ⁴⁾Kindai University, ⁵⁾Tokyo University of Pharmacy and Life Sciences, ⁶⁾The University of Osaka, ⁷⁾Institute of Science Tokyo

WS11-15-O/P

Reciprocal roles of interleukin-33 in a lipid nanoparticle-based mRNA vaccine-induced cytotoxic T cell and type 2 responses

○ Kaiwen Liu^{1,2,3)}, Kouji Kobiyama^{1,2,3)}, Naoko Satoh-Takayama⁴⁾, Tomoya Hayashi^{1,2,3)}, Burcu Temizoz^{1,2,3)}, Hideo Negishi^{1,2,3)}, Asuka Tobuse¹⁾, Mai Onaga¹⁾, Peter Katsikis⁵⁾, Cevayir Coban^{2,3,5)}, Ken Ishii^{1,2,3)}

¹⁾Division of Vaccine Science, the Institute of Medical Science, the University of Tokyo, ²⁾International Vaccine Design Center, the Institute of Medical Science, the University of Tokyo, ³⁾The University of Tokyo Pandemic Preparedness, Infection and Advanced Research Center (UTOPIA), ⁴⁾Precision Immune Regulation RIKEN ECL Research Unit, RIKEN Center for Integrative Medical Sciences, ⁵⁾Division of Malaria Immunology, the Institute of Medical Science, the University of Tokyo, ⁶⁾Department of Immunology, Erasmus University Medical Center

WS11-16-O/P

Elucidation of the CNS Infiltration Mechanism in Acute Lymphoblastic Leukemia via IL-7R Signaling and Development of a Targeted Antibody-Drug Conjugate Therapy

○ Motochika Hamada, Masahiro Yasunaga

National Cancer Center Exploratory Oncology Research & Clinical Trial Center

WS11-17-O/P

RNF213 promotes NF-κB-mediated inflammation via IL-6 amplifier in Moyamoya disease

○ Shintaro Hojo^{1,4,7)}, Mitsutaka Yasuda^{1,2)}, Kaoru Murakami¹⁾, Jing-Jing Jiang^{1,3)}, Yuki Tanaka⁴⁾, Hiroki Tanaka¹⁾, Rie Hasebe⁵⁾, Takeshi Yamasaki⁵⁾, Ari Hashimoto⁶⁾, Tatsuya Atsumi²⁾, Shigeru Hashimoto¹⁾, Masaaki Murakami^{1,4,5,7)}

¹⁾Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ²⁾Department of Rheumatology, Endocrinology and Nephrology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ³⁾Institute of Preventive Genomic Medicine, School of Life Sciences, Northwest University, Xian, China, ⁴⁾Quantum Immunology Team, Institute for Quantum Life Science, National Institute for Quantum and Radiological Science and Technology (QST), Chiba, Japan, ⁵⁾Division of Molecular Neuroimmunology, Department of Homeostatic Regulation, National Institute for Physiological Sciences, National Institutes of Natural Sciences, Aichi, Japan, ⁶⁾Department of Molecular Biology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, ⁷⁾Institute for Vaccine Research and Development (IVReD), Hokkaido University, Sapporo, Japan

Neutrophil-secreted IL-23 p19 monomer attenuates type 17 immunity○ Daiya Ohara¹⁾, Kazuki Sakatoku¹⁾, Hitomi Watanabe¹⁾, Toshiaki Ohteki²⁾, Gen Kondoh¹⁾, Keiji Hirota¹⁾¹⁾Kyoto University, ²⁾Institute of Science Tokyo**WS12 Innate inflammation and diseases**

15:25 ~ 16:40 Room E

Chairpersons: Satoshi Matsuda, Kensuke Miyake

Recent studies have shown that inflammation mediated by innate immune pathways is central to diverse contexts, including aging-associated tissue inflammation, responses to bacterial and viral TLR ligands, and chronic inflammation linked to obesity. Inflammasome activation by endogenous danger signals also contributes to autoimmune and other inflammatory disorders. Together, these findings have led to the concept of innate inflammation, emphasizing the fundamental role of innate immune circuits in disease. To better understand pathological states such as aging, obesity, and infection, it is essential to re-examine these processes through the framework of innate inflammation. This session will provide a forum to discuss the molecular basis of innate inflammation and its implications for redefining disease mechanisms.

WS12-03-O/P

Therapeutic Modulation of GLP-1 Restores Mucosal Immunity during diet-modulated colitis○ Leonie Brockmann^{1,3)}, Carlotta Ronda²⁾, Harris Wang³⁾¹⁾Keio University Human Biology- Microbiome- Quantum Research Center (Bio2Q), ²⁾UC Berkley Innovative Genomics Institute, ³⁾Columbia University

WS12-04-O/P

Production of artificial gut microbiota for transplantation with an IgA antibody

○ Kengo Sasaki, Keishu Takahashi, Ryutaro Tamano, Genta Furuya, Naoki Morita, Peng Gao, Reiko Shinkura

The University of Tokyo

WS12-07-O/P

Pattern Recognition Receptors in Syncytiotrophoblast: Roles in Antiviral Defense and Pregnancy Complications○ Kenichiro Motomura^{1,2,3,4)}, Hiromichi Yamamoto^{2,5)}, Masato Tamari²⁾, Naoko Nagano²⁾, Yuka Hayashi²⁾, Hideaki Morita^{2,6)}, Hironori Takahashi⁵⁾, Seiji Wada⁴⁾, Hiromi Komiya⁷⁾, Hirohisa Saito²⁾, Kenji Matsumoto²⁾¹⁾Division of Immuno-Biomedical Research, Integrated Center for Women's Health, National Center for Child Health and Development,²⁾Department of Allergy and Clinical Immunology, National Research Institute for Child Health and Development, ³⁾Division of Molecular Pharmacology, Department of Pharmacology, National Research Institute for Child Health and Development, ⁴⁾Center for Maternal-Fetal,Neonatal and Reproductive Medicine, National Center for Child Health and Development, ⁵⁾Department of Obstetrics and Gynecology, JichiMedical University, ⁶⁾Allergy Center, National Center for Child Health and Development, ⁷⁾Integrated Center for Women's Health, National Center for Child Health and Development

WS12-09-O/P

Tetratricopeptide repeat and ankyrin repeat containing 1 (Trank1) regulates chemokine expression during infection and is implicated in the pathogenesis of psychiatric disorders

○ Takahisa Kouwaki, Hiroyuki Oshiumi

Kumamoto University

WS12-11-O/P

Virus-induced CD5L/AIM reprograms innate immunity to enable concurrent viral clearance and tissue repair during acute influenza infection

○ Satoko Arai, Toru Miyazaki

The Institute for AIM Medicine

WS12-13-O/P

Investigation of innate immune responses in Rhinolophus bats in vivo○ Kaoru Usui¹⁾, Ziyi Guo¹⁾, Shigeru Fujita¹⁾, Alfredo Hinay¹⁾, Yukie Kashima²⁾, Yutaka Suzuki²⁾, Jumpei Ito¹⁾, Kei Sato¹⁾¹⁾Division of Systems Virology, The Institute of Medical Science, The University of Tokyo, ²⁾Life Science Data Research Center, Graduate School of Frontier Sciences, The University of Tokyo

WS12-15-O/P

Dissecting the complex inflammatory response in pyrin-associated autoinflammatory diseases○ Yoshitaka Honda¹⁾, Naoya Iwata²⁾, Yoshihiko Kuchitsu³⁾, Atsushi Hijikata⁴⁾, Hirofumi Shibata²⁾, Kazushi Izawa²⁾, Tomohiko Taguchi³⁾, Hideki Ueno^{1,5)}, Takahiro Yasumi^{2,6)}¹⁾Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University, ²⁾Department of Pediatrics, Kyoto University Graduate School of Medicine, ³⁾Department of Integrative Life Science, Graduate School of Life Sciences, Tohoku University, ⁴⁾School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, ⁵⁾Department of Immunology, Kyoto University Graduate School of Medicine, ⁶⁾Japan Environment and Children's Study (JECS) Kyoto Regional Center, Kyoto University Graduate School of Medicine

HUMAN DBR1 IS A BRAINSTEM GATE-KEEPER OF IMMUNITY TO A BROAD RANGE OF VIRUSES

○ Koji Nakajima^{1,2,3)}, Yi-Hao Chan⁴⁾, Danyel Lee^{1,2,3)}, Noopur Khobreakar⁵⁾, Oliver Harschnitz⁶⁾, Lorenz Studer⁵⁾, Jean-Laurent Casanova^{1,2,3,7,8)}, Shen-Ying Zhang^{1,2,3)}

¹⁾St. Giles Laboratory of Human Genetics of Infectious Diseases, Rockefeller Branch, The Rockefeller University, New York, NY, USA.,

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³⁾University Paris Cité, Imagine Institute, Paris, France., ⁴⁾Genetics of Host Immunity Lab, A*STAR Infectious Diseases Labs, A*STAR Research Entities, Singapore, Singapore, ⁵⁾The Center for Stem Cell Biology, Sloan Kettering Institute for Cancer Research, New York, NY, USA., ⁶⁾Human

Technopole, Viale Rita Levi-Montalcini, Milan, Italy, ⁷⁾Howard Hughes Medical Institute, New York, NY, USA., ⁸⁾Dept. of Pediatrics, Necker Hospital for Sick Children, AP-HP, Paris, France.

WS13 B cell maturation, plasma cell differentiation and function

15:25 ~ 16:40 Room F

Chairpersons: Kazuhiro Suzuki, Takeshi Inoue

This session focuses on the processes of B cell maturation, plasma cell differentiation and function, with particular emphasis on the role of germinal centers (GCs). Within GCs, B cells undergo affinity maturation and class-switch recombination, ultimately giving rise to long-lived plasma cells and memory B cells. These mechanisms are essential for establishing durable humoral immunity after infection or vaccination. This session will highlight recent advances in understanding how signals within the GC microenvironment influence B cell fate decisions, and how these insights inform the development of vaccines and immunotherapies targeting infectious diseases and autoimmunity.

In vitro induction of human germinal centre B-cells

○ David Priest¹⁾, Wataru Ise^{2,3)}, James Wing^{1,3,4)}

¹⁾Human Single Cell Immunology Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research (CiDER), The University of Osaka, Suita, Osaka, Japan, ²⁾Regulation of Host Defense Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, The University of Osaka, Osaka, Japan, ³⁾Center for Advanced Modalities and DDS (CAMAaD), The University of Osaka, Osaka, Japan, ⁴⁾Laboratory of Human Single Cell Immunology, World Premier International Research Center Initiative Immunology Frontier Research Center (WPI-IFReC), The University of Osaka, Suita, Osaka, Japan

Somatic hypermutation generates autoreactive B cells without autoreactive T cell help

○ Wataru Okada, Daisuke Fujimori, Sawa Ishii, Wakana Takahashi, Miya Yoshino, Koji Tokoyoda
Tottori University

Regulation of selective class-switching provides long term therapeutic benefits for hay fever

○ Naoki Morita¹⁾, Takahiro Nagatake³⁾, Takenori Inomata⁶⁾, Takahiro Adachi²⁾, Yasuhiro Yamada⁴⁾, Manabu Sugai⁷⁾, Keiichi I. Nakayama⁸⁾, Hirotsu Kojima⁵⁾, Reiko Shinkura¹⁾

¹⁾Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo, ²⁾Department of Immunology, Medical Research Institute, Tokyo Medical and Dental University, ³⁾Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, ⁴⁾Department of Molecular Pathology, Graduate School of Medicine, The University of Tokyo, ⁵⁾Drug Discovery Initiative, Graduate School of Pharmaceutical Sciences, The University of Tokyo, ⁶⁾Department of Ophthalmology, Juntendo University Graduate School of Medicine, ⁷⁾Department of Molecular Genetics, Division of Medicine, Faculty of Medical Sciences, University of Fukui, ⁸⁾Anticancer Strategies Laboratory, TMDU Advanced Research Institute, Tokyo Medical and Dental University

Local antigen-dependent generation of plasma cells in bone marrow

○ Toshiro Hirai^{1,2,3,4)}, Yasuo Yoshioka^{1,2,3,4,5)}

¹⁾Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, ²⁾Research Institute for Microbial Diseases, The University of Osaka, ³⁾Graduate School of Pharmaceutical Sciences, The University of Osaka, ⁴⁾Center for Advanced Modalities and DDS, The University of Osaka, ⁵⁾The Research Foundation for Microbial Diseases, The University of Osaka

Induction of Metal-Responsive Genes by LLPC-Associated Survival Cytokines in Plasma Cells

○ Ari Itoh-Nakadai¹⁾, Maiko Kobayashi¹⁾, Masayuki Shiota³⁾, Ryo Funayama⁴⁾, Yasuhiro Yoshida⁵⁾, Keiko Nakayama⁴⁾, Toshiyuki Takai²⁾

¹⁾Department of Hygiene and public Health, Nippon Medical School, ²⁾Department of Experimental Immunology, IDAC, Tohoku University,

³⁾Department of AI and Innovative Medicine, UCARTM, Tohoku University Graduate School of Medicine, ⁴⁾Department of Cell Proliferation, UCARTM, Tohoku University Graduate School of Medicine, ⁵⁾Department of Immunology and Parasitology, School of Medicine, University of Occupational and Environmental Health, Japan

Autoreactivity, NETosis, and Fibrosis: Functional Implications of MZB1⁺ Plasma Cells in Skin Disease

○ Akitaka Hata, Takayoshi Komatsu-Fujii, Du Yaxin, Toshiaki Kogame, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

Differential BCR signaling and antigen presentation activity in IgG B cells contribute to positive selection into bone marrow IgG over IgM plasma cells

○ Yuki Tai^{1,2)}, Takuya Koike^{2,3)}, Wataru Ise¹⁾, Tomohiro Kurosaki^{2,4)}

¹⁾Regulation of Host Defense Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, The University of Osaka, ²⁾Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, The University of Osaka, ³⁾Center for New Generation Infectious Diseases, The University of Tokyo, ⁴⁾Laboratory for Lymphocyte Differentiation, RIKEN Center for Integrative Medical Sciences (IMS)

WS14 Tolerance and Immune suppression

15:25 ~ 16:40 Room G

Chairpersons: Ruka Setoguchi, Takumi Maruhashi

Immunological tolerance is essential for preventing pathological immune responses to self or pseudo-self antigens, thereby safeguarding against autoimmune and inflammatory diseases. Regulatory T cells and other inhibitory mechanisms, such as those mediated by immune checkpoint receptors, are emerging as promising therapeutic approaches for managing excessive inflammation beyond classical autoimmune disorders. This workshop will delve into antigen- and tissue-specific mechanisms of immune suppression, with a focus on their therapeutic potential. Each oral presentation will consist of an 8-minute talk followed by a 2-minute discussion. We warmly invite you to engage in active discussions throughout the oral and poster sessions.

Antigen-Specific Tolerance by mRNA for Therapeutic Applications

○ Shota Imai, Tomoyoshi Yamano, Rikinari Hanayama

Department of Immunology, Graduate School of Medical Sciences, Kanazawa University

Cholesterol sulfate prevents maternal–fetal conflict by locally modulating immune reactivity

○ Kazufumi Kunimura¹⁾, Kenichiro Hirotsu²⁾, Yuki Sugiura³⁾, Yoshihiro Izumi⁴⁾, Kenji Morino¹⁾, Takeshi Iwasaki⁵⁾, Kanjiro Miyata⁶⁾, Takeshi Mori⁷⁾, Yasuyuki Ohkawa⁸⁾, Yoshinao Oda⁵⁾, Kiyoko Kato²⁾, Yoshinori Fukui¹⁾

¹⁾Division of Immunogenetics, Department of Immunobiology and Neuroscience, Medical Institute of Bioregulation, Kyushu University, ²⁾Department of Obstetrics and Gynecology, Graduate School of Medical Sciences, Kyushu University, ³⁾Multomics Platform, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, ⁴⁾Division of Metabolomics, Research Center for Transomics Medicine, Medical Institute of Bioregulation, Kyushu University, ⁵⁾Department of Anatomic Pathology, Graduate School of Medical Sciences, Kyushu University, ⁶⁾Department of Materials Engineering, Graduate School of Engineering, The University of Tokyo, ⁷⁾Department of Applied Chemistry, Faculty of Engineering, Kyushu University, ⁸⁾Division of Transcriptomics, Medical Institute of Bioregulation, Kyushu University

The regulatory role of neonatal thymic microenvironment in the onset of autoimmunity

○ Shigefumi Matsuzawa^{1,2)}, Aya Ushio^{1,3)}, Ruka Nagao¹⁾, Kunihiro Otsuka¹⁾, Takaaki Tsunematsu¹⁾, Naozumi Ishimaru^{1,3)}

¹⁾Department of Oral Pathology, Graduate school of Biomedical Sciences, Tokushima University, ²⁾Section of Oral and Maxillofacial Surgery, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University, ³⁾Department of Oral Pathology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo

Aryl hydrocarbon receptor agonists-loaded nanoparticles induce antigen-specific immune tolerance via regulatory B cells

○ Takanatsu Hosokawa¹⁾, Takuro Yamada¹⁾, Yoshihiro Baba²⁾, Takeshi Mori¹⁾

¹⁾Graduate School of Systems Life Sciences, Kyushu University, ²⁾Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University

PD-1 suppresses inflammatory responses elicited by de novo genome mutagenesis in mice

○ Yoshiya Kakimoto¹⁾, Ilamangai Nagaretnam¹⁾, Fuka Takeuchi²⁾, Toshiaki Shigeoka¹⁾, Akihiko Ito²⁾, Yasumasa Ishida¹⁾

¹⁾Nara Institute of Science and Technology, ²⁾Kindai University Faculty of Medicine

Orally induced tolerance to skin immunization is mediated by mesenteric lymph node-derived Th cells via an integrin $\alpha 4\beta 7$ -dependent mechanism

○ Arisa Akagi¹⁾, Rintaro Shibuya²⁾, Sho Hanakawa³⁾, Akihiko Kitoh¹⁾, Kenji Kabashima^{1,3)}

¹⁾Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York City, NY, United States, ³⁾Skin Research Labs, Agency for Science, Technology and Research (A*STAR), Republic of Singapore

The role of antigen specificity in tissue Treg phenotypes and functions

○ Moeri Tsubaru, Yoshimichi Hoshiya, Ryuichi Murakami, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

December 11**WS15 Tissue-specific T cell biology: Organ-dependent Functions and Diseases**

15:40 ~ 16:55 Room A

Chairpersons: Kiyoshi Hirahara, Noriko Komatsu

T cell functions are shaped by the tissue microenvironments where they reside. This workshop focuses on the cutting-edge landscape of tissue-specific T cell biology, highlighting how organ-specific cues govern differentiation and functions of tissue-specific T cells. One of the key immune-cell populations is tissue-resident memory T (TRM) cells that provide the first response against reencountered pathogens. Novel aspects of tissue-specific T cells in the bone marrow, lung, synovium, and intestine will be discussed, aiming to understand their tissue-specific biology and to develop therapeutic strategies targeting organ-specific diseases.

Pathological analysis of tissue resident memory T Cells in inflammatory bowel disease

○ Naohiko Kinoshita, Mari Murakami, Kiyoshi Takeda

The University of Osaka

Hepatic leukemia factor directs tissue residency of proinflammatory CD4+ T cells○ Masahiro Kiuchi¹⁾, Masahiro Nemoto¹⁾, Hiroyuki Yagyu¹⁾, Chiaki Iwamura^{1,2)}, Hikaru Sugimoto³⁾, Yuki Masuo⁴⁾, Kanae Ohishi¹⁾, Eiryo Kawakami³⁾, Hideki Ueno⁴⁾, Damon J Tumes⁵⁾, Toshinori Nakayama^{1,6)}, Kiyoshi Hirahara^{1,2,6)}¹⁾Department of Immunology, Graduate School of Medicine, Chiba University, ²⁾Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University, ³⁾Predictive Medicine Special Project (PMSP), RIKEN Center for Integrative Medical Sciences (IMS), RIKEN,⁴⁾Department of Immunology, Graduate School of Medicine, Kyoto University, ⁵⁾Centre for Cancer Biology, SA Pathology and the University of South Australia, ⁶⁾AMED-CREST, AMED**CD69 regulates the tissue dynamics of epigenetically imprinted memory CD4+ T cells**○ Chiaki Iwamura^{1,2)}, Rui Hirasawa¹⁾, Kiyoshi Hirahara^{1,2)}¹⁾Department of Immunology, Chiba University, ²⁾Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University**Withdrawn****Identification of a novel subset of lung tissue-resident memory T cells that supports long-lasting local immunity**○ Kosuke Kitahata¹⁾, Diego Diez²⁾, Shiki Takamura¹⁾¹⁾RIKEN Center for Integrative Medical Sciences, ²⁾The University of Osaka**Interplay of IL-10 producing CD4+ T cells and macrophages regulates tissue regeneration following influenza virus infection**

○ Hui Li, Hiroyuki Kondo, Koji Yasutomo

Tokushima University

Mechanisms Mediating Synovial Resident Memory T Cell Persistence in Rheumatoid Arthritis○ Yusuke Miyashita^{1,2)}, Yang Yang¹⁾, Madison Mangin¹⁾, Maryrose Hahn¹⁾, Kimitoshi Nakamura²⁾, Margaret Chang¹⁾¹⁾Boston Children's Hospital, ²⁾Kumamoto University Hospital**Roles of bone marrow memory CD4 T cells in vivo**

○ Sano Nagano, Akiho Idehara, Koji Tokoyoda

Division of Immunology, Faculty of Medicine, Tottori University, Yonago, Japan

WS15-09-O/P

Genetic Deletion of CCR4 Accelerates Early-Stage Atherosclerosis in Mice○ Aga Krisnanda¹, Kazuhiko Matsuo³, Takashi Nakayama³, Naoto Sasaki^{1,2}¹Laboratory of Medical Pharmaceutics, Kobe Pharmaceutical University, ²Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine, ³Division of Chemotherapy, Faculty of Pharmacy, Kindai University

WS15-10-O/P

Human precursor T follicular regulatory cells are primed for differentiation into mature Tfr and disrupted during severe infections.○ James Wing^{1,3,6}, Janyerkye Tulyeu¹, Jonas S ndergaard¹, David Priest^{1,6}, Takeshi Ebihara², Hisatake Matsumoto², Mara Llamas-Covarrubias⁶, Akimichi Morita⁵, Sayuri Yamazaki⁴, Shimon Sakaguchi⁷¹Human Single Cell Immunology Team, CiDER, The University of Osaka, ²Department of Traumatology and Acute Critical Medicine, Graduate School of Medicine, The University of Osaka, ³Center for Advanced Modalities and DDS (CAMA D), The University of Osaka, ⁴Department of Immunology, Nagoya City University Graduate School of Medical Sciences, ⁵Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, ⁶Laboratory of Human Single Cell Immunology, IFR C, The University of Osaka, ⁷Laboratory of Experimental Immunology, IFR C, The University of Osaka

WS15-11-O/P

Lymphopenia-induced CD4+ T-cell proliferation exacerbates skin inflammation triggered by commensal skin fungi○ Mami I. Mamiya^{1,2}, Yuji Nishimura², Gyohei Egawa¹, Akihiko Kitoh¹, Hiroshi Kawamoto², Kenji Kabashima¹¹Department of Dermatology, Kyoto University Graduate School of Medicine, ²Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University

WS15-12-O/P

Increased  T cells in the brain produced IL-17 and exacerbate the pathogenesis of sepsis-induced anxiety in mice○ Masafumi Saito¹, Naoki Moriyama², Yuko Ono³, Joji Kotani³, Manabu Kinoshita¹¹Department of Immunology and Microbiology, National Defense Medical College, ²Hyogo Prefectural Awaji Medical Center, ³Division of Disaster and Emergency Medicine, Department of Surgery Related, Kobe University Graduate School of Medicine

WS15-13-O/P

Circulating, innate Th1-like memory-phenotype CD4+ T cells rapidly accumulate in ischemic organs to exacerbate tissue injury via neutrophil orchestration○ Kosuke Sato^{1,2}, Akihisa Kawajiri¹, Jing Li¹, Ziyang Yang¹, Ryoji Mitsuwaka¹, Shunichi Tayama¹, Kenshiro Matsuda³, Chigusa Nakahashi-Oda³, Akira Shibuya³, Motoshi Wada², Naoto Ishii¹, Takeshi Kawabe^{1,4}¹Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, ²Department of Pediatric Surgery, Tohoku University Graduate School of Medicine, ³Department of Immunology, Institute of Medicine and R&D Center for the Innovative Drug Discovery, University of Tsukuba, ⁴Division for the Establishment of Frontier Sciences, Tohoku University Organization for Advanced Studies

WS15-14-O/P

Characterization of CD20-expressing CD4+ T cells in autoimmune neuroinflammation○ Masanobu Tanemoto^{1,2}, Ippei Ikegami¹, Taiki Sugaya^{1,3}, Ken-Ichi Takano³, Shin Hisahara², Shingo Ichimiya¹¹Department of Human Immunology, Research Institute for Immunology, Sapporo Medical University School of Medicine, ²Department of Neurology, Sapporo Medical University School of Medicine, ³Department of Otolaryngology-Head and Neck Surgery, Sapporo Medical University School of Medicine

WS15-15-O/P

Spermidine Impairs Mitochondrial Function in Senescent-Like CD8+ T Cells via FAO-Driven ROS

○ Jun Wang, Yasuharu Haku, Aprilia Maharani, Tomonori Yaguchi, Kenji Chamoto

Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

WS15-16-O/P

Novel Integrated Workflow for Simultaneous Analysis of Antigen-Specific T-Cells and B-Cells○ Nayeema Nushrat^{1,2}, David Priest¹, Takashi Toya³, Ayumi Taguchi^{4,5}, James Badger Wing^{1,2,4}¹Human Single Cell Immunology team, Center for Infectious Diseases Education and Research (CiDER), The University of Osaka, ²Center for Advanced Modalities and DDS (CAMA D), The University of Osaka, ³Hematology Division, Tokyo Metropolitan Komagome Hospital, ⁴Laboratory of Human Single Cell Immunology, WPI IFR C, The University of Osaka, ⁵Department of Obstetrics and Gynecology, Graduate School of Medicine, The University of Tokyo

WS15-17-O/P

Clonally Expanded CD8+ T Cells Actively Shape Alzheimer's Disease Pathology Through Dynamic Functional Transitions○ Masaki Ohyagi^{1,2}, Minako Ito³, Mana Iizuka-Koga¹, Setsuko Mise-Omata¹, Akihiko Yoshimura¹¹Tokyo University of Science, ²Institute of Science Tokyo, ³Kyushu University

WS15-18-O/P

Lipolysis-microlipophagy cascade regulated by adipose triglyceride lipase drives pathogenic adaptive type 2 immunity

○ Atsushi Sasaki^{1,2,3}, Hiroyuki Yagyu^{1,4}, Masahiro Kiuchi¹, Chiaki Iwamura¹, Takahiro Arano¹, Kanae Ohishi¹, Shigenori Baba¹, Kiyoshi Hirahara^{1,3}

¹Department of Immunology, Graduate School of Medicine, Chiba University, ²Department of Respiriology, Graduate School of Medicine, Chiba University, ³Chiba University, Synergy Institute for Futuristic Mucosal Vaccine Research and Development, ⁴Department of Pulmonology, Graduate School of Medicine, Yokohama City University

WS15-19-O/P

Flexible and Comprehensive Phenotyping of Tumor and Peripheral Blood Mononuclear Cells in Endometrial Carcinoma

○ Naoto Fujioka¹, Anita Kant², Deeqa Mahamed², Geneve Awong², Gary Impey²

¹Standard BioTools K.K., ²Standard BioTools Inc.

WS15-20-O/P

Analysis of T Cells in Amyotrophic Lateral Sclerosis

○ Yoshihiro Harada, Mio Kawazoe, Ako Matsui, Minako Ito

Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University

WS15-21-O/P

Sleep Deprivation Alters Brain Immune Landscape with Adaptive Immune Cell Infiltration and Neuronal Gene Signatures

○ Haruka Takeda

University of Tsukuba

WS15-22-O/P

Identification and characterization of neonatal liver-resident T cells

○ Yuta Iijima^{1,2}, Ichita Hasegawa¹, Shunka Kano¹, Yukihiro Endo¹, Ryo Nasu¹, Hiromichi Hamada², Motoko Kimura¹

¹Department of Experimental Immunology, Graduate School of Medicine, Chiba University, ²Department of Pediatrics, Graduate School of Medicine, Chiba University

WS16 Tumor Immunity - Antigens and receptors

15:40 ~ 16:55 Room B

Chairpersons: Takayuki Kanaseki, Kanako Shimizu

“Tumor immunity” has emerged as one of the most prominent areas within the field of immunology in recent years. This heightened attention is largely attributable to the successful clinical introduction of immune checkpoint inhibitors, which has facilitated the accumulation of not only basic research findings but also substantial clinical data. At the same time, steady progress has been made in other established areas of tumor immunity beyond immune checkpoint research. This year’s “Tumor immunity” workshop is organized into four subcategories, encompassing a broad range of topics. In this session, we will focus primarily on studies examining “Antigens and receptors”, highlighting their roles and mechanisms in tumor immunity. We look forward to active and stimulating discussions.

WS16-02-O/P

Pushing the limits of neoantigen discovery in low tumour mutational burden cancers by synergising with targeted protein degradation and noncanonical translation

○ Wei Wu^{1,2}, Ilisia Ow^{1,2}, Ruojing Lu^{1,2}, Justin Jun Ting Low¹, Wei Jin Amanda Crystal Lee¹

¹Singapore Immunology Network (SIgN), A*STAR Singapore, ²National University of Singapore

WS16-05-O/P

Crucial Role of IFN-γ-Induced MHC Class II on Tumor Cells in Antitumor Immunity Elicited by an mRNA Cancer Vaccine

○ Mahiro Shibata^{1,2}, Hui Jin¹, Hisashi Arase^{1,2}

¹Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka, ²Laboratory of Immunochemistry, Immunology Frontier Research Center, The University of Osaka

WS16-06-O/P

HANG-Vax potentially maximize the efficacy of TCR-T therapy, leading to the cure of immunotherapy-resistant solid tumors and long-term prevention of recurrence

○ Fumiyasu Momose¹, Makiko Yamane¹, Junko Nakamura¹, Linan Wang¹, Keiki Nagaharu², Kohei Yabuuchi³, Shogo Aso³, Takeru Kurosawa^{3,4}, Toru Katsumata³, Tsuyoshi Shimoboji³, Takashi Nakai^{3,4}, Yoshihiro Miyahara¹

¹Department of Personalized Cancer Immunotherapy, Mie University Graduate School of Medicine, ²Lund Stem Cell Center, Lund University, ³New Product Development Office, Healthcare Materials Div., Asahi Kasei Corporation, ⁴DiveRadGel Co., Ltd.

WS16-07-O/P

Peptide immunotherapy targeting FAP augments anti-tumor responses

○ Keiko Uda¹, Toshihiro Komatsu¹, Kaoru Furihata², Yuki Tanaka⁴, Kohsuke Onoue⁴, Kazuhide Onoguchi⁴, Yoshiko Yamashita⁴, Kanae Kubota³, Naoki Sakaguchi⁵

¹Department of Immunology, School of Medicine, Kochi University, ²Department of Pathology, School of Medicine, Kochi University,

³Advanced Medical Science course, School of Medicine, Kochi University, ⁴AI Development Division, Global Innovation Unit, NEC Corporation, ⁵Pharmaceutical Solutions Division, R&D, TERUMO Corporation (previous affiliation)

WS16-08-O/P

HBI-8000, a histone deacetylase inhibitor, reprograms CD8⁺ T cell differentiation and enhances PD-1 blockade efficacy

○ Mohamed A. Soltan¹, Tomonori Yaguchi^{1,2}, Tasuku Honjo¹, Kenji Chamoto^{1,2}

¹Department of Immunology and Genomic Medicine, CCII, Kyoto University Graduate School of Medicine, ²Department of Immuno-Oncology PDT, Kyoto University Graduate School of Medicine

WS16-10-O/P

Synergic induction of MHC-I expression by cooperation of IRF1 and NLRC5

○ Tsutomu Tanaka^{1,2}, Torsten Meissner^{3,4}, Saptha Vijayan⁵, Kyoung-Hee Lee^{3,4}, Yuen-Joyce Liu³, Isaac Downs⁵, Jason Yeung⁵, Koichi Kobayashi^{1,2,5}

¹Department of Immunology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, ²The Institute for Vaccine Research and Development (IVeD), Hokkaido University, ³Department of Cancer Immunology & AIDS, Dana-Farber Cancer Institute, ⁴Department of Microbiology and Immunobiology, Division of Immunology, Harvard Medical School, ⁵Department of Microbial Pathogenesis and Immunology, Texas A&M Health Science Center

WS16-11-O/P

IFN-γ stimulation upregulates HLA-F cell surface expression that regulates tumor progression in colon cancers

○ Noriko Oujii-Sageshima, Atsushi Hara, Kaito Yasuike, Hinata Wade, Ryutaro Furukawa, Masahiro Kitabatake, Toshihiro Ito

Department of Immunology, Nara Medical University

WS17 Allergy (I): Orchestrating the Cellular Symphony

15:40 ~ 16:55 Room C

Chairpersons: Jiro Kitaura, Haruka Miki

This session aims to unravel how diverse allergic responsible cells coordinate to shape allergic inflammation. Allergy is not driven by a single cell type, but by the dynamic interplay among mast cells, basophils, eosinophils, ILC2, T and B lymphocytes, epithelial cells, and stromal elements. Recent advances in single-cell technologies, imaging, and systems biology have shed light on the complex “cellular symphony” that governs the onset, persistence, and resolution of allergic responses. By highlighting novel insights into intercellular communication, regulation of effector functions, and emerging therapeutic targets, this workshop seeks to provide participants with an integrated view of cellular networks in allergy.

WS17-01-O/P

Enhanced STAT6 signaling promotes age-dependent spontaneous mixed granulocytic lung inflammation

○ Naoko Nagano¹, Masato Tamari¹, Hiromichi Yamamoto¹, Hisataka Nakazaki¹, Satoshi Fujita¹, Yuka Hayashi¹, Kenichiro Motomura^{1,2,3}, Shuji Takada⁴, Susumu Nakae⁵, Hirohisa Saito¹, Kenji Matsumoto¹, Hideaki Morita^{1,6}

¹Department of Allergy and Clinical Immunology, National Research Institute for Child Health and Development, ²Division of Immuno-Biomedical Research, Integrated Center for Women's Health, National Research Institute for Child Health and Development, ³Division of Molecular Pharmacology, Department of Pharmacology, National Research Institute for Child Health and Development, ⁴Department of Systems Developmental Biology, National Research Institute for Child Health and Development, ⁵Graduate School of Integrated Science for Life, Hiroshima University, ⁶Allergy Center, National Center for Child Health and Development

WS17-02-O/P

FoxO1 regulates peripheral basophil abundance and allergic inflammation

○ Kensuke Miyake, Junya Ito, Xintong Chen, Hajime Karasuyama

Institute of Integrated Research, Institute of Science Tokyo

WS17-03-O/P

Differences in Steroid Responsiveness across Mouse Strains in Type 2 Allergic Airway Inflammation

○ Hyunsoo Kim, Yong Woo Jung

College of Pharmacy, Korea University

WS17-04-O/P

IL-33-mediated innate responses trigger sneezing independent of IgE in allergic rhinitis○ Huiyang Li¹⁾, Yasutaka Motomura^{1,4)}, Kazuyo Moro^{1,2,3)}¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, ²⁾ Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Laboratory for Innate Immune Systems, IFRcC, The University of Osaka, ⁴⁾Division of Immunology and Allergy, Research Institute for Biomedical Science, Tokyo University of Science

WS17-05-O/P

Involvement of the Unfolded Protein Response in the Mast Cell-dependent allergic responses in vivo and in vitro

○ Hiroto Kouda, Kazuki Nagata, Chiharu Nishiyama

Department of Biological Science and Technology, Tokyo University of Science

WS17-06-O/P

CCR4-NOT complex-mediated mRNA decay preserves ILC2 identity and function during allergic inflammation○ Megumi Tatematsu^{1,2)}, Akene Fuchimukai^{1,2)}, Shunsuke Takasuga^{1,2)}, Takashi Ebihara^{1,2,3)}¹⁾Department of Medical Biology, Akita University Graduate School of Medicine, ²⁾Key Research Laboratory at Akita University, ³⁾Comprehensive Center for Infectious Disease Control, Akita University

WS17-07-O/P

Spontaneously produced IgE attenuates passive cutaneous anaphylaxis○ Akihiko Kitoh¹⁾, Rintaro Shibuya²⁾, Sho Hanakawa³⁾, Kenji Kabashima^{1,3)}¹⁾Department of Dermatology, Kyoto University Graduate School of Medicine, ²⁾Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, ³⁾Skin Research Labs, Agency for Science, Technology and Research (A*STAR)

WS17-08-O/P

Mast cell-monocyte interaction regulates macrophage differentiation and allergic inflammation

○ Yuka Nagata, Shiori Murakami, Atsushi Furukawa, Ryo Suzuki

Division of Pharmaceutical Sciences Institute of Medical, Pharmaceutical, and Health Science Kanazawa University

WS18 Organ-specific Immune Diseases

15:40 ~ 16:55 Room D

Chairpersons: Sachiko Miyake, Tomohisa Sujino

This session addresses organ-specific immune diseases encompassing various autoimmune and inflammatory conditions that affect the nervous system, endocrine system, skin, gastrointestinal tract, liver, and other organs. Studies presented in this session provide insights into the molecular mechanisms underlying the pathogenesis of these diseases, focusing on the roles of immune cells/factors and the tissue microenvironment in shaping organ-specific immunopathological processes.

WS18-04-O/P

Helios-Dependent Chromatin Remodeling Drives IFN- α -Responsive Plasma Cell Differentiation in NMOSD Naïve B Cells

○ Shuhei Sano, Daisuke Noto, Yasunobu Hoshino, Yuji Tomizawa, Kazumasa Yokoyama, Nobutaka Hattori, Sachiko Miyake

Juntendo University

WS18-06-O/P

CXCR5 regulates disease susceptibility and activity in primary biliary cholangitis (PBC)○ Yuki Hitomi^{1,2)}, Yoshihiro Aiba³⁾, Kazuyoshi Ishigaki^{4,5)}, Minoru Nakamura^{3,6,7)}¹⁾Institute of Biomedical Sciences, Fukushima Medical University, ²⁾National Institute of Global Health and Medicine, Japan Institute for Health Security, ³⁾Clinical Research Center, NHO Nagasaki Medical Center, ⁴⁾RIKEN Center for Integrative Medical Sciences, ⁵⁾Keio University School of Medicine, ⁶⁾Medical Institute of Bioregulation, Kyushu University, ⁷⁾Nagasaki University Graduate School of Biomedical Sciences

WS18-08-O/P

Mechanisms of Th1-skewed intestinal inflammation under adaptive immunodeficiency in the mice carrying W447C mutation of Lig4 encoding DNA ligase IV○ Hideki Kosako¹⁾, Yusuke Yamashita¹⁾, Misato Tane¹⁾, Tadashi Okamura¹⁾, Takashi Kato^{2,3)}, Izumi Sasaki²⁾, Sadahiro Iwabuchi⁴⁾, Hiroaki Hemmi^{2,5)}, Shinichi Hashimoto⁴⁾, Takashi Sonoki¹⁾, Shinobu Tamura^{1,6)}, Tsuneyasu Kaisho^{2,7)}¹⁾Department of Hematology/Oncology, Wakayama Medical University, ²⁾Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, ³⁾Department of Rheumatology and Clinical Immunology, Wakayama Medical University, ⁴⁾Department of Molecular Pathophysiology, Institute of Advanced Medicine, Wakayama Medical University, ⁵⁾Laboratory of Immunology, Faculty of Veterinary Medicine, Okayama University of Science, ⁶⁾First Department of Internal Medicine, Wakayama Medical University, ⁷⁾Industry-Government-Academia Collaboration Promotion Headquarters, Wakayama Medical University

WS18-09-O/P

A commensal-derived lipid mediator promotes tuft cell driven mucosal healing in colitis

○ Shunya Hatai^{1,2}, Yasutaka Motomura^{1,3}, Koji Hosomi⁴, Sakaguchi Taiki⁵, Ryu Okumura⁵, Daisuke Motooka⁷, Eiichi Morii⁸, Shota Nakamura⁷, Takayuki Ogino⁶, Kiyoshi Takeda⁵, Jun Kunisawa⁴, Kazuyo Moro^{1,2,9}

¹Innate Immune Systems, The University of Osaka Graduate School of Medicine, ²Innate Immune Systems, RIKEN IMS, ³Institute of Life Science and Medical Bioscience Division of Immunology and Allergy, Tokyo University of Science, ⁴Laboratory of Vaccine Materials, National Institutes of Biomedical Innovation, Health and Nutrition, ⁵Laboratory of Immune Regulation, The University of Osaka Graduate School of Medicine, ⁶Department of Gastroenterological Surgery, The University of Osaka Graduate School of Medicine, ⁷Department of Infection Metagenomics, Research Institute for Microbial Diseases, The University of Osaka, ⁸Department of Pathology, Graduate School of Medicine, The University of Osaka, ⁹Laboratory for Innate Immune Systems, Immunology Frontier Research Center (IFReC), The University of Osaka

WS18-14-O/P

CD300b is a pathogenic receptor triggering autoinflammatory dermatitis and bone destruction by recognizing self-phospholipids

○ Asako Kubota^{1,2}, Xuhao Huang², Takae Yabuki³, Kumi Izawa⁴, Masatomo Takahashi⁵, Yoshihiro Izumi⁵, Masamichi Nagae^{1,2}, Kazuo Okamoto⁶, Jiro Kitaura^{4,7}, Sho Yamasaki^{1,2,3,8}

¹Department of Molecular Immunology, Research Institute for Microbial Diseases, the University of Osaka, ²Laboratory of Molecular Immunology, Immunology Frontier Research Center, the University of Osaka, ³Center for Advanced Modalities and DDS (CAMA-D), the University of Osaka, ⁴Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ⁵Division of Metabolomics/Mass Spectrometry Center, Medical Research Center for High Depth Omics, Medical Institute of Bioregulation, Kyushu University, ⁶Division of Immune Environment Dynamics, Cancer Research Institute, Kanazawa University, ⁷Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine, ⁸Center for Infectious Disease Education and Research (CiDER), the University of Osaka

WS18-16-O/P

Tertiary Lymphoid Tissue Development and Stage Progression in Chronic Kidney Disease

○ Jinghao Chen¹, Takahisa Yoshikawa³, Naoya Torii^{1,3}, Steffen Plunder¹, Motoko Yanagita^{1,3}, Sungrim Seirin-Lee^{1,2}

¹Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University Institute for Advanced Study, Kyoto University, ²Department of Mathematical Medicine, Graduate School of Medicine, Kyoto University, ³Department of Nephrology, Graduate School of Medicine, Kyoto University

WS18-17-O/P

Proteasome dysfunction in adipocytes causes lipodystrophy with autoinflammation

○ Thanh Nam Nguyen, Junko Morimoto, Koji Yasutomo
Tokushima University

WS19 Innate immune response by phagocytes

15:40 ~ 16:55 Room E

Chairpersons: Kenichi Asano, Miyako Tanaka

Phagocytic cells such as macrophages, neutrophils, and dendritic cells are essential for eliminating bacteria and other pathogens through phagocytosis, thereby shaping early inflammatory responses. Beyond this, they perform diverse functions: neutrophils generate neutrophil extracellular traps (NETs) as a unique antimicrobial defense, while macrophages and dendritic cells secrete cytokines that drive adaptive immunity. Their activation is controlled by multiple receptors, most notably Toll-like receptors (TLRs), which detect microbial and danger signals. This session will focus on molecular mechanisms by which phagocytes regulate innate immunity. By exploring their signaling and effector functions, we aim to reveal how phagocytes orchestrate host defense and bridge innate and adaptive responses.

WS19-01-O/P

Distinct properties of lymphoid-derived conventional dendritic cells

○ Masashi Kanayama¹, Nobuyuki Onai², Toshiaki Ohteki¹

¹Department of Biodefense Research, Medical Research Laboratory, Institute of Science Tokyo, ²Department of Immunology, Kanazawa Medical University

WS19-03-O/P

Siglec-14 recognizes carbon nanomaterials and triggers inflammatory responses

○ Shin-Ichiro Yamaguchi, Masafumi Nakayama
Ritsumeikan University

WS19-07-O/P

Identification and functional analysis of inflammation-regulated circular RNAs controlling cytokine expression in macrophages

○ Shuya Hiroki, Daisuke Ori, Norisuke Kano, Taro Kawai

Laboratory of Molecular Immunobiology, Graduate School of Science and Technology, Nara Institute of Science and Technology (NAIST), Nara, Japan

WS19-09-O/P

Transcriptomic analysis of osteal macrophages unveils molecular signatures of inflammation in experimental colitis-induced osteoporosis

○ Alaa Terukawa, Ryota Suzuki, Hend Terukawa, Norimasa Iwasaki
Hokkaido University

WS19-12-O/P

Extracellular lipid metabolism driven by sPLA2-III controls the fate of macrophages in pulmonary fibrosis

○ Sho Egawa¹⁾, Yoshitaka Taketomi¹⁾, Makoto Murakami^{1,2)}
¹⁾The University of Tokyo, ²⁾AMED-CREST

WS19-15-O/P

Neutrophils turn the key to sex difference of lifespans when hyper-vitamin D in circulation

○ Mayumi Mori, Chiaki Abe, Yuki Kanesaka, Yo-ichi Nabeshima
Kyoto University

WS19-19-O/P

Lysosomal DNA stress triggers TLR9-mediated emergency myelopoiesis and Liver fibrosis

○ Ryota Sato¹⁾, Takuma Shibata²⁾, Kiyoshi Yamaguchi³⁾, Yoichi Furukawa³⁾, Kenta Nakano⁴⁾, Tadashi Okamura⁴⁾, Ryutaro Fukui¹⁾, Yuji Motoi¹⁾, Kensuke Miyake¹⁾

¹⁾Miyake Lab, Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University, ²⁾Division of Aging and Regeneration, Department of Cancer Biology, The Institute of Medical Science, The University of Tokyo, ³⁾Division of Clinical Genome Research, Advanced Clinical Research Center, The Institute of Medical Science, The University of Tokyo, ⁴⁾Department of Laboratory Animal Medicine, Japan Institute for Health Security

WS19-20-O/P

TLR7 Stress Response Disrupts Immune Privilege and Triggers Submandibular Sialadenitis

○ Takuma Shibata¹⁾, Yuji Motoi²⁾, Ryota Sato²⁾, Emi Nishimura¹⁾, Kensuke Miyake²⁾

¹⁾Division of Aging and Regeneration, The Institute of Medical Science, The University of Tokyo, ²⁾Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University

WS20 Viral infections and Immunity

15:40 ~ 16:55 Room F

Chairpersons: Hiroyuki Oshiumi, Saya Moriyama

The pandemics of this century have underscored the critical importance of immunology in viral infections. This session will focus on antiviral immune responses, including innate and adaptive immunity from the perspectives of cellular and humoral responses. We will also highlight immune strategies that counter viral mutations and immune evasion. In addition, recent advances in vaccine development for the prevention and treatment of infectious diseases will also be discussed, together with studies on vaccine-associated adverse events. These studies are expected to provide an essential foundation to cope with future pandemics and to address current challenges in infectious diseases.

WS20-07-O/P

Recognition and inhibition of CTL escape mutant HIV-1 by KIR2DL2+ NK cells

○ Nozomi Kuse^{1,2)}, Kimiko Kuroki³⁾, Nanami Tomioka³⁾, Yu Zhang²⁾, Shunsuke Kita³⁾, Takayuki Chikata²⁾, Katsumi Maenaka^{3,4,5,6,7)}, Masafumi Takiguchi²⁾

¹⁾Department of Latent Infection, National Institute of Infectious Diseases, Japan Institute for Health Security, ²⁾Division of International Collaboration Research and Tokyo Joint Laboratory, Joint Research Center for Human Retrovirus Infection, Kumamoto University, ³⁾Laboratory of Biomolecular Science, Faculty of Pharmaceutical Sciences, Hokkaido University, ⁴⁾Center for Research and Education on Drug Discovery, Faculty of Pharmaceutical Sciences, Hokkaido University, ⁵⁾Institute for Vaccine Research and Development, Hokkaido University, ⁶⁾Global Station for Biosurfaces and Drug Discovery, Hokkaido University, ⁷⁾Faculty of Pharmaceutical Sciences, Kyushu University

WS20-10-O/P

Molecular basis of potent antiviral HLA-C-restricted CD8+ T cell response to an immunodominant SARS-CoV-2 nucleocapsid epitope

○ Chihiro Motozono¹⁾, Mako Toyoda¹⁾, Hiroshi Hamana²⁾, Hiroyuki Kishi²⁾, Takamasa Ueno¹⁾

¹⁾Division of Infection and immunity, Joint Research Center for Human Retrovirus infection, Kumamoto University, ²⁾Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama

WS20-11-O/P

Altered SARS-CoV-2-specific CD8+ T cell response profiles in people with HIV after natural infection

○ Ai Kawana-Tachikawa^{1,2,3}, Kaori Nakayama-Hosoya¹, Alitzel Anzurez¹, Michiko Koga^{4,5}, Hiroshi Yotsuyanagi^{6,7}, Yukihiro Yoshimura⁸, Natsuo Tachikawa⁹, Hiroyuki Yamamoto^{1,2}

¹AIDS Research Center, National Institute of Infectious Diseases, Japan Institute for Health Security, ²Joint Research Center for Human Retrovirus Infection, Kumamoto University, ³Division of AIDS Vaccine Development, IMSUT Hospital, The Institute of Medical Science, The University of Tokyo, ⁴Department of Infectious Diseases, The University of Tokyo Pandemic Preparedness Infection and Advanced Research Center (UTOPIA), The University of Tokyo, ⁵Department of Infectious Diseases and Applied Immunology, IMSUT Hospital, The Institute of Medical Science, the University of Tokyo, ⁶Japan Institute for Health Security, ⁷The Institute of Medical Science, The University of Tokyo, ⁸Yokohama Municipal Citizen's Hospital, ⁹Nayoro Higashi Hospital

WS20-13-O/P

Anti-idiotypic antibodies targeting SARS-CoV-2 neutralizing antibodies encoded with IGHV3-53 germlines

○ Yimei Wang¹, Saya Moriyama¹, Yu Adachi¹, Akira Aina², Kenta Nakano³, Tadashi Okamura³, Tadaki Suzuki², Hiroshi Ito⁴, Yoshimasa Takahashi¹

¹Research Center for Vaccine Development, National Institute of Infectious Diseases, Japan Institute for Health Security, ²Department of Infectious Disease Pathology, National Institute of Infectious Diseases, Japan Institute for Health Security, ³Department of Laboratory Animal Medicine, National Institute of Global Health and Medicine, Japan Institute for Health Security, ⁴Drug Discovery Research, Chiome Bioscience Inc.

WS20-22-O/P

17,18-epoxyeicosatetraenoic acid ameliorates mRNA-LNP-induced local inflammation by inhibiting neutrophil infiltration

○ Keigo Iemitsu^{1,2}, Ken Yoshii², Takahiro Nagatake^{2,3}, Jun Kunisawa^{1,2,4,5,6,7,8,9}

¹Graduate School of Medicine, The University of Osaka, Osaka, Japan, ²Laboratory of Vaccine Materials and Laboratory of Gut Environmental System, Microbial Research Center for Health and Medicine, National Institutes of Biomedical Innovation, Health, and Nutrition (NIBIN), Osaka, Japan, ³Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, Kawasaki, Kanagawa, Japan, ⁴Graduate School of Pharmaceutical Sciences, The University of Osaka, Osaka, Japan, ⁵Graduate School of Science, The University of Osaka, Osaka, Japan, ⁶International Research and Development Center for Mucosal Vaccines, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ⁷Graduate School of Medicine, Kobe University, Kobe, Japan, ⁸Research Organization for Nano and Life Innovation, Waseda University, Tokyo, Japan, ⁹Graduate School of Dentistry, The University of Osaka, Osaka, Japan

WS20-24-O/P

Therapeutic efficacy of an adjuvant-containing live-attenuated AIDS vaccine in pathogenic SHIV-infected cynomolgus macaques

○ Emiko Urano¹, Tomotaka Okamura¹, Yasuhiro Yasutomi^{1,2,3,4,5}

¹National Institutes of Biomedical Innovation, Health and Nutrition, ²Institute for Vaccine Research and Development, Hokkaido University, ³School of Integrative and Global Majors, University of Tsukuba, ⁴Mie University Graduate School of Medicine, ⁵Graduate School of Pharmaceutical Science, The University of Osaka

WS20-29-O/P

Characterization of Virus-Host Immune Response and Screening of Viral Infection Using Animal RNA-Seq Data

○ Luca Nishimura¹, Hiroaki Unno¹, Junna Kawasaki^{2,3}, Jumpei Ito¹, Kei Sato¹

¹Division of Systems Virology, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, ²Department of Infectious Disease Pathobiology, Graduate School of Medicine, Chiba University, ³Department of Infectious Disease Pathology, National Institute of Infectious Diseases, Japan Institute for Health Security

WS21 Gastrointestinal Barrier and Immune Regulation

15:40 ~ 16:55 Room G

Chairpersons: Koji Atarashi, Hisako Kayama

The gastrointestinal tract has a complex barrier system in which epithelial cells and innate/adaptive immune cells collaborate to maintain tissue homeostasis and control both pathogenic and commensal microbes. This session will explore how the barrier integrates environmental and microbial signals with host immunity. Presentations will cover topics, such as epithelial metabolism, novel regulators of glycosylation, and immune cell–microbe interactions in shaping barrier function. Collectively, these studies highlight the complex barrier system as a dynamic hub of immune regulation in the gut.

WS21-03-O/P

Oral TRPV1 stimulation lowers the activation threshold for antigen-specific T cell responses via the CGRP–CD301b⁺ dendritic cell axis

○ Mayuko Hashimoto, Yutaka Kusumoto, Michio Tomura
Osaka-Ohtani University

WS21-04-O/P

Fam3b regulates gut homeostasis by promoting epithelial fucosylation via Fut2 localization in the Golgi apparatus○ Yuki Ito^{1,2)}, Ryu Okumura^{1,3)}, Kiyoshi Takeda^{1,3)}¹The University of Osaka, ²Kobe University, ³WPI Immunology Frontier Research Center

WS21-05-O/P

Role of B4galnt2-mediated glycosylation in the mucus barrier and gut homeostasis

○ Airi Ishibashi, Ryu Okumura, Kiyoshi Takeda

The University of Osaka

WS21-09-O/P

Cross-species reactive IgA's physicochemical pattern recognition selectively inhibits the folate cycle of pathogenic bacteria

○ Genta Furuya, Keishu Takahashi, Ryutaro Tamano, Kengo Sasaki, Naoki Morita, Peng Gao, Reiko Shinkura

Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo

WS21-11-O/P

Dietary antigens contribute to intestinal homeostasis by enhancing ILC3 function○ Ayana Mori^{1,2)}, Mitsuki Ito^{2,3)}, Tomoko Kageyama²⁾, Naoko Tachibana⁴⁾, Tamotsu Kato⁴⁾, Ayumi Ito⁴⁾, Shiho Nagata^{1,4)}, Hiroshi Ohno^{4,5)}, Naoko Satoh-Takayama^{1,2)}¹Immunobiology Laboratory, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Japan, ²Precision Immune Regulation RIKEN ECL Research Unit, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ³Graduate School of Pharmaceutical Sciences, Tokyo University of Science, Katsushika, Tokyo, Japan, ⁴Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁵Laboratory for Immune Regulation, Graduate School of Medicine, Chiba University, Chiba, Japan

WS21-12-O/P

Polyreactive IgA induced by *Limosilactobacillus reuteri* and *Muribaculum intestinale* enhances gut mucosal barrier○ Hikari Maruta¹⁾, Kisara Hattori-Muroi¹⁾, Daisuke Takahashi¹⁾, Reiko Shinkura²⁾, Tsukasa Matsuda³⁾, Koji Hase^{1,3,4,5)}¹Division of Biochemistry, Faculty of Pharmacy, Keio University, ²Institute for Quantitative Biosciences, Laboratory of Immunology and Infection Control, The University of Tokyo, ³Institute of Fermentation Sciences (IFeS), Faculty of Food and Agricultural Sciences, Fukushima University, ⁴Human Biology-Microbiome-Quantum Research Center (WPI-Bio2Q), Keio University, ⁵International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo (IMSUT)

WS21-15-O/P

Spatial and functional characterization of ulcer-associated IL-33+ fibroblasts in ulcerative colitis○ Yuki Fukushima¹⁾, Satoshi Koga^{1,3)}, Kazuyo Moro^{1,2,3)}¹Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, ²Laboratory for Innate Immune Systems, RIKEN-IMS, ³Laboratory for Innate Immune Systems, IReC, The University of Osaka

WS21-20-O/P

ILC3s-neuro axis in the gut regulates energy metabolism during fasting○ Takuma Misawa^{1,2)}, Kazuyo Moro^{1,3,4,5)}, Shigeo Koyasu²⁾¹Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences (IMS), ²Laboratory for Immune Cell Systems, RIKEN Center for Integrative Medical Sciences (IMS), ³Laboratory for Innate Immune Systems, Department of Immunology and Microbiology, Graduate School of Medicine, The University of Osaka, ⁴Laboratory for Innate Immune Systems, Immunology Frontier Research Center (IFReC), The University of Osaka, ⁵Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Frontier Biosciences, The University of Osaka

December 12

WS22 T cell differentiation and function

12:50 ~ 14:05 Room A

Chairpersons: Kazuko Shibuya, Taishin Akiyama

This workshop explores how T cells develop, function, and can be harnessed for therapy. We trace their journey from early maturation and post-transcriptional safeguards that prevent autoimmunity to how metabolism and regulatory cues shape helper T cell activity and antibody responses. We also highlight mechanisms that sustain immune memory and promote tolerance. Together, these insights provide a roadmap for precisely manipulating T cell function and guiding the design of next-generation immune therapies.

WS22-01-O/P

Bcl11-Cxhc1 axis controls stage-specific chromatin accessibility during lymphopoiesis

○ Kazuki Okuyama, Ichiro Taniuchi

Laboratory for Transcriptional Regulation, RIKEN Center for Integrative Medical Sciences

WS22-02-O/P

DEAD-box RNA helicase 6 regulates T cell activation and drives autoimmune pathogenesis

○ Chihito Goya, Asako Kajiya, Ting Cai, Masanori Yoshinaga, Osamu Takeuchi
Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS22-03-O/P

In vivo CRISPR screening reveals metabolic control of TFH cells and humoral immunity by phosphatidylethanolamine

○ Guotong Fu
Shanghai Immune Therapy Institute

WS22-04-O/P

Bob1+ T follicular helper cells support intestinal mucosal immunity

○ Shotaro Shirato^{1,2)}, Ippei Ikegami¹⁾, Takashi Sasaki³⁾, Umi Komabayashi¹⁾, Ayumi Tatekoshi^{1,2)}, Masayoshi Kobune²⁾, Shingo Ichimiya¹⁾
¹⁾Department of Immunology, Research Institute for Immunology, Sapporo Medical University School of Medicine, ²⁾Department of Hematology, Sapporo Medical University School of Medicine, ³⁾Animal Research Center, Sapporo Medical University School of Medicine

WS22-05-O/P

MyD88 signaling suppresses memory T helper cell formation

○ Kokoro Ohki¹⁾, Shintaro Hojyo²⁾, Koji Tokoyoda¹⁾
¹⁾Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan, ²⁾Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan

WS22-06-O/P

PD-1 suppresses germinal center reaction and affinity maturation of antibodies

○ Yosuke Tokumaru^{1,2)}, Yuka Nakajima^{1,3)}, Kensuke Suzuki^{1,2)}, Tasuku Honjo³⁾, Akio Ohta¹⁾
¹⁾Department of Immunology, Foundation for Biomedical Research and Innovation at Kobe (FBRI), ²⁾Drug Discovery Department, R&D Division, Meiji Seika Pharma Co, Ltd., ³⁾Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

WS22-07-O/P

Antigen-Presenting Extracellular Vesicles Enable Subset-Specific Modulation of CD4⁺ T Cells

○ Uryo Onishi^{1,2)}, Ryouken Kimura²⁾, Shota Imai²⁾, Xiabing Lyu^{2,3)}, Tomoyoshi Yamano^{2,3)}, Rikinar Hanayama^{2,3)}
¹⁾School of Medical and Pharmaceutical Sciences, Kanazawa University, ²⁾Department of Immunology, Graduate School of Medicine, Kanazawa University, ³⁾WPI Nano Life Science Institute (NanoLSI), Kanazawa University

WS23 Tumor Immunity - Therapies

12:50 ~ 14:05 Room B

Chairpersons: Ai Kotani, Seo Wooseok

“Tumor immunity” has emerged as one of the most prominent areas within the field of immunology in recent years. This heightened attention is largely attributable to the successful clinical introduction of immune checkpoint inhibitors, which has facilitated the accumulation of not only basic research findings but also substantial clinical data. At the same time, steady progress has been made in other established areas of tumor immunity beyond immune checkpoint research. This year’s “Tumor immunity” workshop is organized into four subcategories, encompassing a broad range of topics. In this session, we will focus primarily on studies examining various “Therapies” of tumors, highlighting their efficacy and mechanisms in tumor immunity. We look forward to active and stimulating discussions.

WS23-03-O/P

Harnessing an epigenetic rewiring technique to tailor T cell differentiation for controlling colitis and tumors

○ Lorene Rousseau^{1,2)}, Stefania Vilbois¹⁾, Stanislav Dergun¹⁾, Ping-Chih Ho¹⁾
¹⁾University of Lausanne UNIL, ²⁾Centre Hospitalier Universitaire Vaudois CHUV

WS23-04-O/P

Engineering a tunable split CAR system with low immunogenicity for next-generation cancer immunotherapy

○ Tsukasa Shigehiro, Ryuki Ueda, Hiroyuki Kadota, Tomokatsu Ikawa
Tokyo University of Science, Research Institute for Biomedical Sciences

WS23-07-O/P

Reprogramming antitumor T cells to achieve a long-lived memory phenotype

○ Mirei Kataoka, Yusuke Ito, Yuki Kagoya
Keio University

WS23-08-O/P

Exosomes, regulated by SPRED2, reshape tumor microenvironment via activating IL6/ STAT3 signaling

○ Tong Gao, Miao Tian, Tianyi Wang, Masahiro Fujisawa, Toshiaki Ohara, Teizo Yoshimura, Akihiro Matsukawa
Okayama University

WS23-11-O/P

PD-L1 blockade expanded a proliferative subset within exhausted CD8+ tumor-infiltrating lymphocytes

○ Naoya Baba¹⁾, Tsunoda Mikiya¹⁾, Munetomo Takahashi²⁾, Masaki Kurosu¹⁾, Haru Ogiwara¹⁾, Kouji Matsushima¹⁾, Satoshi Ueha¹⁾

¹⁾Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾The University of Tokyo

WS23-16-O/P

Prevention of NK cell-mediated rejection by using mAbs for inhibitory receptors of NK cells

○ Masao Itahara¹⁾, Kyoko Masuda¹⁾, Koji Terada²⁾, Yuma Kato¹⁾, Yasutoshi Agata²⁾, Hisashi Arase³⁾, Hiroshi Kawamoto¹⁾

¹⁾Department of Immunology, Institute for Life and Medical Sciences, Kyoto University, ²⁾Department of Biochemistry and Molecular Biology, Shiga University of Medical Science, ³⁾Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka

WS23-18-O/P

iPS cell-derived NKT cells recognize NCR3LG1 and show anti-tumor effects

○ Hongxuan Wang, Takahiro Aoki, Mariko Takami, Daiki Shimizu, Katsuhiro Nishimura, Ko Ozaki, Shinichiro Motohashi

Chiba University

WS24 Allergy (II): Mastering Disease Control

12:50 ~ 14:05 Room C

Chairpersons: Saeko Nakajima, Yosuke Kurashima

Building on mechanistic insights from cellular networks in allergy, this session focuses on the regulation of allergic diseases through various experimental models, including atopic dermatitis and food allergy mouse models. By showcasing recent findings from preclinical research, the workshop highlights how disease mechanisms revealed in animal models can guide the development of precision medicine approaches and inform clinical translation. Participants will gain perspectives on how mastering allergy control requires integrating mechanistic studies with translational strategies for future treatment innovations.

WS24-01-O/P

Pivotal roles of receptor for advanced glycation end product in the pathogenesis of allergic contact dermatitis

○ Ryutaro Yamazaki¹⁾, Ryotaro Koishi¹⁾, Tetsuya Honda²⁾, Kenji Kabashima³⁾, Yasuhiko Yamamoto⁴⁾, Jun Kunisawa⁵⁾, Takahiro Nagatake^{1,5)}

¹⁾Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, ²⁾Department of Dermatology, Hamamatsu University School of Medicine, ³⁾Department of Dermatology, Kyoto University Graduate School of Medicine, ⁴⁾Department of Biochemistry and Molecular Vascular Biology, Kanazawa University Graduate School of Medical Sciences, ⁵⁾Laboratory of Vaccine Materials and Laboratory of Gut Environmental System, Microbial Research Center for Health and Medicine, National Institutes of Biomedical Innovation, Health and Nutrition

WS24-02-O/P

Psychological stress induces β 2-adrenergic signaling-mediated macrophage immunosenescence and epigenetic suppression of efferocytosis in allergic skin inflammation

○ Soichiro Yoshikawa¹⁾, Kei Nagao¹⁾, Sumika Toyama¹⁾, Mitsutoshi Tominaga¹⁾, Kenji Takamori^{1,2)}

¹⁾Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, ²⁾Department of Dermatology, Juntendo University Urayasu Hospital

WS24-03-O/P

Role of resident memory Th2 cells in a protease allergen-induced allergic airway inflammation

○ Seiji Kamijo, Toshiro Takai, Ko Okumura

Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine

WS24-04-O/P

Endogenous soluble ST2 inhibits food allergic responses in murine models

○ Kumi Izawa¹⁾, Mayuki Kojima^{1,2)}, Tomoaki Ando¹⁾, Keiko Maeda¹⁾, Ayako Kaitani¹⁾, Nobuhiro Nakano¹⁾, Akie Maehara¹⁾, Naoko Negishi¹⁾, Ko Okumura¹⁾, Jiro Kitaura¹⁾

¹⁾Atopy Research Center, Juntendo University School of Medicine, ²⁾Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine

WS24-05-O/P

Antigen-specific stimulation regulates impaired induction and dysfunction of regulatory T cell in food allergy

○ Tomohiro Hoshino, Kyoko Shibahara, Haruka Nakanishi, Kohei Soga, Kosuke Nishitsuji, Yoshiyo Bamba, Satoshi Hachimura, Haruyo Nakajima-Adachi
The University of Tokyo

WS24-06-O/P

Differential local IgE responses among mouse strains regulate the severity of food allergy-induced diarrhea

○ Hiroka Yamashita¹, Yasutaka Motomura^{1,4}, Kazuyo Moro^{1,2,3}

¹Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, ²Laboratory for Innate Immune Systems, RIKEN-IMS, ³Laboratory for Innate Immune Systems, IReC, The University of Osaka, ⁴Research Institute for Biomedical Science, Tokyo University of Science

WS24-07-O/P

The role of immune cells in the choroid of the eye: Mast cells as regulators of myopia

○ Shin-ichi Ikeda^{1,2}, Tomokazu Fukuchi^{1,2}, Jue Shi^{1,2}, Kazuno Negishi¹, Kazuo Tsubota^{1,3}, Toshihide Kurihara^{1,2}

¹Department of Ophthalmology, Keio University School of Medicine, ²Laboratory of Photobiology, Keio University School of Medicine, ³Tsubota Laboratory, Inc

WS24-08-O/P

The role of conjunctival friction and pollen shells in the goblet cell-associated antigen passage (GAP) formation

○ Yasuharu Kume^{1,2}, Tomoaki Ando¹, Keiji Matsumoto^{1,2,3}, Ryo Omori^{1,2,3}, Meiko Kimura^{1,2}, Moe Matsuzawa^{1,2}, Kumi Izawa¹, Ayako Kaitani¹, Ko Okumura¹, Shintaro Nakao^{1,3}, Nobuyuki Ebihara², Jiro Kitaura^{1,2,4}

¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²Department of Ophthalmology, Juntendo University Urayasu Hospital, ³Department of Ophthalmology, Juntendo University Graduate School of Medicine, ⁴Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine

WS25 Systemic autoimmunity, Autoinflammation and Immunodeficiency 12:50 ~ 14:05 Room D

Chairpersons: Hirofumi Shoda, Miki Haruka

This session focuses on systemic immunopathology encompassing systemic autoimmune diseases such as SLE and Sjögren's syndrome, autoinflammatory diseases, and immunodeficiency. Combining cutting-edge omics approaches with established experimental methodologies using human samples and animal models is crucial for advancing our understanding of the pathogenesis of systemic immune disorders. We anticipate that the presentations in this session will offer valuable insights that contribute to the development of novel therapeutic strategies and ultimately improve patient outcomes.

WS25-02-O/P

Role of IFN γ CD4⁺ T cells in promoting autoantibody production via B cell differentiation in a toll-like receptor 7 agonist-induced lupus model

○ Reona Tanimura, Yuya Kondo, Ryota Sato, Ryohei Nishino, Hiromitsu Asashima, Haruka Miki, Hiroto Tsuboi, Takayuki Sumida, Isao Matsumoto

Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS25-03-O/P

Breaking Immune Tolerance: Self and Neoself Discrimination by T cells in Autoimmune Diseases

○ Shunsuke Mori¹, Hisashi Arase^{1,2}

¹Department of Immunochimistry, Research Institute for Microbial Diseases, The University of Osaka, ²Laboratory of Immunochimistry, World Premier International Immunology Frontier Research Centre, The University of Osaka

WS25-13-O/P

A prognostic type I interferon signature in ANCA-associated glomerulonephritis

○ Nariaki Asada, Robin Khatri, Jonas Engesser, Huiying Wang, Pauline Ginsberg, Ulf Panzer
University Medical Center Hamburg -Eppendorf

WS25-14-O/P

Recognition of Neoself Antigens by Clonally Expanded Salivary Gland T Cells in Sjögren's Syndrome

○ Katsuhiro Atagi¹, Shunsuke Mori¹, Michiko Ohashi^{1,2,3}, Yang Jing^{1,2}, Shoji Kawada³, Noriko Arase⁴, Hui Jin¹, Masayuki Nishide³, Manabu Fujimoto⁴, Atsushi Kumanogoh³, Hisashi Arase^{1,2}

¹Research Institute for Microbial Diseases, The University of Osaka, ²Laboratory of Immunochimistry, World Premier International Immunology Frontier Research Centre, The University of Osaka, ³Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, The University of Osaka, ⁴Department of Dermatology, Graduate School of Medicine, The University of Osaka

WS25-21-O/P

Deciphering state-dependent immune features at single-cell resolution from multi-layer human omics including transcriptomics, germline variants, mosaic chromosomal alterations, and plasma proteomics

○ Ryuya Edahiro^{1,2}, Go Sato^{1,2,3}, Tatsuhiko Naito^{1,2}, Yuya Shirai^{1,2}, Atsushi Kumanogoh¹, Yukinori Okada^{1,2,3}

¹The University of Osaka, ²RIKEN Center for Integrative Medical Sciences, ³The University of Tokyo

WS25-23-O/P

Discovery of a shared disease-associated gene module across multiple autoinflammatory diseases and therapeutic implications

○ Ikuo Takazawa¹, Haruka Tsuchiya¹, Takahiro Itamiya^{1,2}, Harumi Shirai¹, Yumi Tsuchida¹, Yasuo Nagafuchi^{1,2}, Hirofumi Shoda¹, Tomohisa Okamura^{1,2}, Keishi Fujio¹

¹Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-0033, Japan, ²Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-0033, Japan

WS25-25-O/P

Aberrant Multicellular Interferon Production and Responses Underlie Adar1 Mutation-Driven Aicardi-Goutières Syndrome-like Encephalopathy

○ Hyebin Yoo¹, Taisuke Nakahama², Reiichi Sugihara³, Yuki Kato⁴, Yukio Kawahara⁵

¹Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences, The University of Osaka, Suita, Osaka, Japan,

²Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences and Graduate School of Medicine, Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), Center for Infectious Disease Education and Research (CiDER), The University of Osaka, Suita, Osaka, Japan, ³Graduate School of Medicine, The University of Osaka, Suita, Osaka, Japan, ⁴Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences and Graduate School of Medicine, Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), Graduate School of Medicine, The University of Osaka, Suita, Osaka, Japan, ⁵Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences and Graduate School of Medicine, Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), Center for Infectious Disease Education and Research (CiDER), and Genome Editing Research and Development Center, Graduate School of Medicine, The University of Osaka, Suita, Osaka, Japan

WS25-27-O/P

A human COMMD8 variant causes inborn errors of humoral immunity by impairing B cell migration

○ Mizuki Kishi¹, Taiichi Shirai^{1,2}, Kazuhiro Suzuki^{1,2,3}

¹Laboratory of Immune Response Dynamics, WPI Immunology Frontier Research Center, The University of Osaka, Japan, ²Department of Immune Response Dynamics, Research Institute for Microbial Diseases, The University of Osaka, Japan, ³Center for Infectious Disease Education and Research, The University of Osaka, Japan

WS26 Cell death and innate lymphocytes

12:50 ~ 14:05 Room E

Chairpersons: Naoko Satoh-Takayama, Yasutaka Motomura

Cell death in epithelial barriers is a fundamental trigger of inflammatory responses. Recent studies have revealed that cytokines released from epithelial cells and macrophages can activate innate lymphocytes, with accumulating evidence pointing to cell death as a key upstream event. Although cell death and innate lymphocytes were once considered unrelated processes, it is now becoming clear that cell death represents an important mechanism linking tissue damage to innate lymphocyte activation. This session will explore the intersection of cell death and innate lymphocytes. By bringing together these perspectives, we aim to deepen our understanding of innate immunity and highlight new conceptual frameworks for how tissue damage and immune activation are interconnected.

WS26-02-O/P

Caspase-12 functions as a pattern recognition receptor that triggers pyroptosis via gasdermin D activation in response to bacterial lipoproteins

○ Shenghui Zhi, Kohsuke Tsuchiya

Kanazawa University

WS26-04-O/P

Single-cell analysis reveals cell death of a monocyte subset driving NLRP3-mediated IL-1 β secretion in human inflammation

○ Kentaro Kato¹⁾, Lieselotte Vande Walle²⁾, Mai Yamagishi³⁾, Takashi Kamatani⁴⁾, Masaki Shimizu⁵⁾, Takumi Takizawa⁶⁾, Junko Takita¹⁾, Ryuta Nishikomori⁷⁾, Osamu Ohara⁸⁾, Yoshitaka Shirasaki⁹⁾, Mohamed Lamkanfi²⁾, Kazushi Izawa¹⁾

¹⁾Department of Pediatrics, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾Laboratory of Medical Immunology, Department of Internal Medicine and Paediatrics, Ghent University, Ghent, Belgium, ³⁾Live Cell Diagnosis, Ltd., Saitama, Japan, ⁴⁾Department of AI Technology Development, M&D Data Science Center, Institute of Integrated Research, Institute of Science Tokyo, Tokyo, Japan, ⁵⁾Department of Pediatrics, Perinatal and Maternal Medicine, Institute of Science Tokyo, Tokyo, Japan, ⁶⁾Department of Pediatrics, Gunma University Graduate School of Medicine, Maebashi, Gunma, Japan, ⁷⁾Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan, ⁸⁾Kazusa DNA Research Institute, Kisarazu, Japan, ⁹⁾Research Center for Advanced Science and Technology, The University of Tokyo, Tokyo, Japan

WS26-07-O/P

PP2A negatively controls NK cell proliferation and trafficking to maintain homeostasis in peripheral tissues

○ Yui Shinzawa^{1,2,3)}, So-Ichiro Sasaki³⁾, Sadahiro Iwabuchi⁴⁾, Shinichi Hashimoto⁵⁾, Manabu Kawada⁶⁾, Makoto Kurachi²⁾, Yoshihiro Hayakawa³⁾

¹⁾Center for Biomedical Research and Education, Kanazawa University, ²⁾Department of Molecular Genetics, Kanazawa University, ³⁾Section of Host Defences, Institute of Natural Medicine, University of Toyama, ⁴⁾Department of Bioinformatics and Genomics, Kanazawa University, ⁵⁾Department of Molecular Pathophysiology, Institute of Advanced Medicine, Wakayama Medical University, ⁶⁾Laboratory of Oncology, Institute of Microbial Chemistry

WS26-08-O/P

FURIN is essential for allergic airway inflammation via regulating ILC2 effector function

○ Takuya Yashiro¹⁾, Asuka Akamatsu¹⁾, Kazuyo Moro^{1,2)}

¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine and IReC, The University of Osaka, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS

WS26-10-O/P

LTi-like cells form gut lymphoid tissues through distinctive Runx/Cbfb-dependent differentiation

○ Reo Kobayashi¹⁾, Takuma Fukui¹⁾, Eriko Sumiya²⁾, Shinichiro Sawa¹⁾

¹⁾Department of Mucosal Immunology, Medical Institute of Bioregulation, Kyushu University, ²⁾Department of Orthopedic Surgery, Faculty of Medicine, University of Tokyo

WS26-12-O/P

Regulatory mechanism of glycosphingolipid expression in mouse NK cell lineage

○ Luckman Bagas Dwiyan¹⁾, Ka He¹⁾, Kazuyoshi Takeda²⁾, So-ichiro Sasaki¹⁾, Yoshihiro Hayakawa¹⁾

¹⁾Section of Host Defences, Institute of Natural Medicine, University of Toyama, ²⁾Laboratory of Cell Biology, Graduate School of Medicine, Juntendo University

WS26-14-O/P

NKT cells mediate germinal center priming and enhance humoral response induced by a novel pneumococcal vaccine

○ Koji Hayashizaki^{1,2)}, Shogo Takatsuka³⁾, Taku Ikegami¹⁾, Toshio Kanno⁴⁾, Masato Kubo⁵⁾, Makoto Tsujii⁶⁾, Yoshimasa Takahashi²⁾, Daisuke Kitamura⁷⁾, Yusuke Endo⁴⁾, Yuki Kinjo^{1,2)}

¹⁾Department of Bacteriology, The Jikei University School of Medicine, ²⁾Research Center for Vaccine Development, National Institute of Infectious Diseases, ³⁾Department of Fungal Infection, National Institute of Infectious Diseases, ⁴⁾Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, ⁵⁾KIC Kyoto University Immunomonitoring Center, Kyoto University, ⁶⁾Department of Microbiology, Hoshi University School of Pharmacy and Pharmaceutical Sciences, ⁷⁾Division of Cancer Cell Biology, Reserch Institute for Biomedical Sciences (RIBS), Tokyo University of Science

WS26-16-O/P

Gasdermin-independent release of IL-1 family cytokines drives skin inflammation induced by Caspase-8 dependent keratinocyte death

○ Masahiro Nagata^{1,2,4)}, Laurens Wachsmuth^{1,2)}, Eunjin Ju^{1,2)}, Yasmin Carvalho Schäfer^{1,2)}, Remzi Onur Eren^{1,2)}, Manolis Pasparakis^{1,2,3)}

¹⁾Institute for Genetics, University of Cologne, Cologne, Germany, ²⁾Cologne Excellence Cluster on Cellular Stress Responses in Aging-Associated Diseases (CECAD), University of Cologne, Cologne, Germany, ³⁾Center for Molecular Medicine (CMMC), University of Cologne, Cologne, Germany, ⁴⁾Department of Medical Chemistry, Medical Research Laboratory, Institute of Integrated Research, Institute of Science Tokyo, Tokyo, Japan

Myeloid cells—including neutrophils, eosinophils, mast cells, dendritic cells, and macrophages—are central to innate immunity across tissues. This workshop will spotlight how their tissue-specific programs and plasticity coordinate steady-state homeostasis, pathogen clearance and antigen presentation during inflammation, and repair-promoting functions during resolution. We will emphasize organ-specific niches, intercellular crosstalk, and emerging mechanistic insights with direct relevance to infection, allergy, autoimmunity, fibrosis, and cancer. We look forward to lively, constructive discussions that clarify open questions and catalyzes collaboration.

WS27-04-O/P

Resident bronchus-associated macrophages shape the local inflammatory environment in chronic asthma

○ Suzuka Tokunaga¹, Kentaro Fujii², Masaru Ishii^{1,2}

¹Department of Immunology and Cell Biology, Graduate School of Frontier Biosciences, The University of Osaka, ²Department of Immunology and Cell Biology, Graduate School of Medicine, The University of Osaka

WS27-05-O/P

Specialized immune responses of jawbone macrophages adapted to oral microbial environment

○ Sumire Kikuchi^{1,2}, Yasuhito Yahara^{1,4}, Narikazu Uzawa², Masaru Ishii^{1,3}

¹Department of Immunology and Cell Biology, Graduate School of Medicine, The University of Osaka, ²Department of Oral and Maxillofacial Oncology and Surgery, Graduate School of Dentistry, The University of Osaka, ³WPI-Immunology Frontier Research Center, The University of Osaka, ⁴Department of Orthopaedic Surgery, Faculty of Medicine, The University of Toyama

WS27-13-O/P

Macrophage-derived gelsolin promotes fibroblast migration during skin wound healing

○ Eri Toyohara^{1,2}, Fumiyuki Sasaki², Teruyuki Dohi¹, Masumi Shimizu², Eriko Koike², Rei Ogawa¹, Rimpei Morita²

¹Department of Plastic, Reconstructive and Aesthetic Surgery, Nippon Medical School, Tokyo, Japan, ²Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan

WS27-19-O/P

Distinct TAM Subset with Cross-Dressing Capability Determines the Bifurcation of Tumor Immunity

○ Kanako Shimizu¹, A Sanpei¹, Jun Nakabayashi², Yan Liu¹, Jun Shinga¹, An Nakazato¹, Shin-ichiro Fujii^{1,3}

¹RIKEN, IMS, ²Institute of Science Tokyo, ³DMP, RIKEN

WS27-34-O/P

Immunological characterization of neutrophils in proteasome subunit β -type 9 variant mouse

○ Izumi Sasaki¹, Yuko Ishida², Shiori Kaji³, Takashi Kato⁴, Daisuke Okuzaki⁵, Hiroaki Hemmi⁶, Toshikazu Kondo², Tsuneyasu Kaisho¹

¹Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, ²Department of Forensic Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama, 641-8509, Japan, ³Second Department of Internal Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, ⁴Department of Rheumatology and Clinical Immunology, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, ⁵Laboratory of Human Immunology (Single Cell Genomics), WPI Immunology Frontier Research Center, The University of Osaka, Osaka 565-0871, Japan, ⁶Laboratory of Immunology, Faculty of Veterinary Medicine, Okayama University of Science, Imabari, Ehime 794-8555, Japan

WS27-35-O/P

Alveolar neutrophil mitochondria promote pulmonary fibrosis via regulation of pro-fibrotic factors

○ Yoshinari Nakatsuka¹, Atsuyasu Sato¹, Yutaka Hirayama¹, Kazuma Yoshida², Yohei Korogi¹, Shigeru Ashino¹, Masanori Matsumoto³, Tomohiro Handa⁴, Gabriel Nuñez^{5,6}, Toyohiro Hirai¹

¹Department of Respiratory Medicine, Graduate School of Medicine, Kyoto University, ²Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, ³Department of Pathobiology, University of Illinois at Urbana-Champaign, ⁴Department of Advanced Medicine for Respiratory Failure, Graduate School of Medicine, Kyoto University, ⁵Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, ⁶Center for Infectious Disease Education and Research (CiDER), The University of Osaka

WS27-36-O/P

The expression and physiological roles of Mrgprb2/MRGPRX2

○ Ayako Kaitani¹, Kumi Izawa¹, Tomoaki Ando¹, Akihisa Yoshikawa^{1,2}, Mayu Shinagawa¹, Mio Sasaki¹, Akie Maehara¹, Nobuhiro Nakano¹, Masahiro Nakamura², Ko Okumura¹, Jiro Kitaura¹

¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²Department of Otorhinolaryngology, Juntendo University Graduate School of Medicine

WS27-37-O/P

Eosinophil-derived IL-27 promotes colon Th17 differentiation

○ Jun Kasamatsu¹, Hiroki Yoshida², Katsuyuki Yui³, Elizabeth A Jacobsen⁵, Marco Colonna⁴, Hiromitsu Hara¹

¹Kagoshima University, ²Saga University, ³Nagasaki University, ⁴Washington University in St. Louis, ⁵Mayo Clinic Arizona

This session will focus on infections caused by non-viral pathogens, including parasites, bacteria, and fungi, and the immune responses that shape their outcomes. Particular emphasis will be placed on the complex interplay between host defense mechanisms and pathogen strategies that drive disease pathogenesis. By integrating perspectives from both sides of the host–pathogen interaction, the session aims to stimulate discussion that not only deepens our understanding of infectious immunity but also fosters the development of innovative research approaches. Ultimately, we hope this dialogue will contribute to the identification of novel therapeutic targets and inform future vaccine development.

WS28-01-O/P

Neutrophils as Potential Effector Cells in Host Resistance to Tick Infestation

○ Jiali Yan¹⁾, Tetsuro Kobayashi²⁾, Maki Mizumura¹⁾, Kayoko Yamaji³⁾, Hirotaka Kanuka³⁾, Hiroko Matsunaga⁴⁾, Haruko Takeyama⁴⁾, Kazuyo Moro^{1,2,5)}

¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Department of Tropical Medicine, Jikei University School of Medicine, ⁴⁾Biomolecular Engineering Laboratory, Waseda University, ⁵⁾Laboratory for Innate Immune Systems, iFReC, The University of Osaka

WS28-11-O/P

Activation of Gsdmd by Gram-negative bacterial infection and its impact on the pathogenesis

○ Hideki Hara

Asahikawa Medical University

WS28-13-O/P

Comprehensive transcriptomic approaches reveal disturbance of the heterogeneity of host myeloid cells during *Salmonella* systemic infection

○ Hirotaka Hiyoshi¹⁾, Mohamad Al Kadi²⁾, Toshio Kodama¹⁾, Andreas J. Baumler³⁾, Daisuke Okuzaki²⁾

¹⁾Institute of Tropical Medicine, Nagasaki University, ²⁾WPI immunology Research Center, The University of Osaka, ³⁾Department of Medical Microbiology and Immunology, University of California at Davis

WS28-14-O/P

***Salmonella* persists in splenic monocytes without induction of bactericidal activity**

○ Uki Kimura¹⁾, Karen Saiki¹⁾, Nobuhiro Matsuyama¹⁾, Sei Kashima¹⁾, Akiko Takaya^{2,3)}, Koji Tokoyoda¹⁾

¹⁾Division of Immunology, Faculty of Medicine, Tottori University, Yonago, Japan, ²⁾Laboratory of Infection Control Science, Graduate School of Pharmaceutical Science, Chiba University, Chiba, Japan, ³⁾Medical Mycology Research Center, Chiba University, Chiba, Japan

WS28-17-O/P

Identification of human T cells selectively recognizing non-tuberculous mycobacteria (NTM)

○ Nanami Kamata^{1,2,3)}, Yoshihiko Hoshino⁴⁾, Nagatoshi Fujiwara⁵⁾, Sho Yamasaki^{1,2,3,6)}

¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, ³⁾Center for Advanced Modalities and Drug Delivery system (CAMaD), The University of Osaka, ⁴⁾Department of Mycobacteriology, Leprosy Research Center, National Institute of Infectious Diseases, ⁵⁾Department of Food and Nutrition, Faculty of Contemporary Human Life Science, Tezukayama University, ⁶⁾Center for Infectious Disease Education and Research (CiDER), The University of Osaka

WS28-19-O/P

Mucosal immune network of Th17 cells via gut-mouth axis enhance protection against oropharyngeal candidiasis

○ Jun-ichi Nagao^{1,2)}, Emi Kaji¹⁾, Sari Kishikawa^{1,2)}, Kenji Toyonaga^{1,2)}, Sonoko Tasaki¹⁾, Satoru Iwai¹⁾, Aoba Iwanuma¹⁾, Yoshihiko Tanaka^{1,2)}

¹⁾Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental College, ²⁾Oral Medicine Research Center, Fukuoka Dental College

Poster

○ : Presenter

WS01 TCR and co-stimulatory molecules

WS01-01-O/P

TCR Affinity and Memory Status Define Competitive Advantage in CD8⁺ T Cells

○ Masaki Kurosu, Mikiya Tsunoda, Haru Ogiwara, Kouji Matsushima, Satoshi Ueha

Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science

WS01-02-O/P

Antitumor Effects of TNF Ligand–Fusion Proteins Targeting Costimulatory TNFRSF Members on T Lymphocytes

○ Ayaka Sato¹⁾, Syuji Toya¹⁾, Kanon Hase¹⁾, Masashi Morita¹⁾, Mari Hikosaka-Kuniishi¹⁾, Naoto Ishii²⁾, Takanori So¹⁾

¹⁾Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan,

²⁾Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan

WS01-03-O/P

Complete humanization of MHC genes in mouse

○ Teruhiko Suzuki^{1,2)}, Mana Yamakawa^{1,2)}, Saki An^{1,2)}, Hiroko Yanagisawa¹⁾, Yasuhiro Kazuki^{3,4,5,6)}, Mitsuo Oshimura³⁾, Eiji Mizutani⁷⁾, Takahiko Hara¹⁾

¹⁾Stem Cell Proj., Tokyo Metropol. Inst. Med. Sci., ²⁾Immunomed. Group, Tokyo Metropol. Inst. Med. Sci., ³⁾CERC, Tottori Univ., ⁴⁾Div. of Chr. Biomed. Eng., Grad. Sch. of Med. Sci., Tottori Univ., ⁵⁾Chr. Eng. Group, ExCELLS., ⁶⁾Sch. of Life Sci., Facul. of Med., Tottori Univ., ⁷⁾Institute of Medicine, University of Tsukuba

WS01-04-O/P

Similar autoreactive regulatory T cell clones are selected during early ontogeny and expand under homeostatic perturbations

○ Reiko Tsukazaki, Ryuichi Murakami, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS01-05-O/P

Mucosal-associated invariant T cells recognize an intermediary metabolite involved in the DNA synthetic pathway

○ Yanqi Xue¹⁾, Chihiro Fukui¹⁾, Ryosuke Takasaki²⁾, Shinsuke Inuki²⁾, Daisuke Motoooka⁴⁾, Emi Ito⁵⁾, Koji Tamada³⁾, Makoto Furutani-Seiki⁶⁾, Kei Sakamoto⁷⁾, Koh-Hei Sonoda¹⁾, Sho Yamasaki⁵⁾, Kensuke Shibata⁸⁾

¹⁾Department of Ophthalmology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, 812-8582, Japan, ²⁾Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, 606-8501, Japan, ³⁾Department of Immunology, Graduate School of Medicine, Yamaguchi University, Yamaguchi, 753-8511, Japan, ⁴⁾NGS core facility, Bioinformatics Center, Research Institute for Microbial Diseases, The University of Osaka, Suita, 565-0871, Japan, ⁵⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, Suita, 565-0871, Japan, ⁶⁾Systems Biochemistry in Pathology and Regeneration, Graduate School of Medicine, Yamaguchi University, Ube, 753-8511, Japan, ⁷⁾Department of Microbiology and Immunology, Graduate School of Medicine, Yamaguchi University, Ube, 753-8511, Japan, ⁸⁾Department of Visual Regeneration, Graduate School of Medical Sciences, Kyushu University, Fukuoka, 812-8582, Japan

WS01-06-O/P

Identification of conserved CD1b motif (RExxD) that restricts biased TCRβ of unconventional T cells

○ Minoru Asa¹⁾, Yuki Sakai¹⁾, Mika Hirose²⁾, Masamichi Nagae^{1,3)}, Go Hirai⁴⁾, Takayuki Kato^{2,6)}, Sho Yamasaki^{1,3,5,6)}

¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, Japan, ²⁾Laboratory for CryoEM Structural Biology, Institute for Protein Research, The University of Osaka, Japan, ³⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, Japan, ⁴⁾Graduate School of Pharmaceutical Sciences, Kyushu University, Japan, ⁵⁾Center for Infectious Disease Education and Research (CiDER), The University of Osaka, Japan, ⁶⁾Center for Advanced Modalities and Drug Delivery Systems (CAMaD), The University of Osaka, Japan

WS01-07-P

Multi-omics reveals inter-species variation in bat adaptive immunity

○ Hao Zhou, Suyue Wang, Kazutaka Katoh, Daron Standley

The University of Osaka

WS01-08-P

PD-1-mediated immune checkpoint system is conserved from sharks to humans

○ Ryohei Kondo¹⁾, Kohei Kondo²⁾, Kei Nabeshima³⁾, Akihiko Nishikimi¹⁾, Yasumasa Ishida⁴⁾, Toshiaki Shigeoka⁴⁾, Johannes M. Dijkstra⁵⁾

¹⁾Biosafety Division, National Center for Geriatrics and Gerontology, Aichi, Japan, ²⁾Antimicrobial Resistance Research Center, Japan Institute for Health Security, Tokyo, Japan, ³⁾Biodiversity Division, National Institute for Environmental Studies, Tsukuba, Japan, ⁴⁾Division of Biological Science, Nara Institute of Science and Technology, Nara, Japan, ⁵⁾Center for Medical Science, Fujita Health University, Aichi, Japan

WS01-09-P

High-avidity antigen-specific CD4⁺ T cells exhibit distinct, public and convergent TCR sequence features○ Dongyun Lu^{1,4}, Celine Chua^{1,4}, Xinxin Xue^{1,4}, Naila Shinwari^{1,4}, Isao Ito², Takao Hashiguchi^{1,3}, Hideki Ueno^{1,4}¹Department of Immunology, Graduate School of Medicine, Kyoto University, ²Department of Respiratory Medicine, Kyoto University Hospital,³Institute for Frontier Life and Medical Sciences, Kyoto University, ⁴Kyoto Immunomonitoring Center (KIC)

WS01-10-P

The establishment of a transgenic mouse system to analyze HTLV-1-driven CD4⁺ T cell immortalization mechanism○ M Ishrat Jahan¹, Kenji Sugata¹, Koki Nimura¹, Nobuko Irie¹, Takushi Nomura¹, Kimi Araki³, Masahiro Ono^{1,2}, Yorifumi Satou¹¹Joint Research Center for Human Retrovirus Infection, Kumamoto University, Kumamoto, 860-8556, Japan, ²Department of Life Sciences, Imperial College London, ³Division of Developmental Genetics, Institute of Resource Development and Analysis, Kumamoto University, Kumamoto, 860-0811, Japan

WS01-11-P

Autophagy-related ATG8 family proteins are required for integrin LFA1-mediated immunological synapse formation○ Naoyuki Kondo¹, Masahiro Yamamoto², Tatsuo Kinashi¹¹Kansai Medical University, ²The University of Osaka

WS01-12-P

Identification of T cell epitopes using peptide-MHC-CAR reporter

○ Emi Inoue, Masako Kohyama, Daiki Mori, Wataru Ise

Division of Microbiology and Immunology Regulation of Host Defense Team, Center for Infectious Disease Education and Research, The University of Osaka

WS01-13-P

Universal platform for the production and structural studies of TCR○ Masamichi Nagae^{1,2}, Takae Yabuki¹, Taiki Ito¹, Minori Asa¹, Nanami Kamata¹, Yuki Sakai¹, Mika Hirose³, Takayuki Kato^{3,5}, Sho Yamasaki^{1,2,4,5}¹Research Institute for Microbial diseases, The University of Osaka, ²Immunology Frontier Research Center (IFReC), The University of Osaka,³Institute for Protein Research, The University of Osaka, ⁴Center for Infectious Disease Education and Research (CIDER), The University of Osaka, ⁵Center for Advanced Modalities and Drug Delivery Systems (CAMaD), The University of Osaka

WS01-14-P

Association of TRAIL receptor with phosphatase SHP-1 enables repressing T cell receptor signaling and T cell activation through inactivating Lck○ I-Tsu Chyuan¹, Ping-Ning Hsu²¹National Tsing Hua University, ²National Taiwan University

WS01-15-P

Identification of subcellular TCR distribution in T cells with biallelic TCR α expression○ Takahiro Iguchi¹, Taku Kureha¹, Ryunosuke Muro², Takeshi Nitta², Hiroshi Takayanagi¹¹Department of Immunology, Graduate School of Medicine, The University of Tokyo, ²Division of Molecular Pathology, Research Institute for Biomedical Sciences, Tokyo University of Science

WS01-16-P

Effector/Memory T Lymphocyte-Targeted Bispecific OX40 Ligand—IL-2 Fusion Protein○ Yusuke Ozawa¹, Riho Itaya¹, Jun Negami¹, Masashi Morita¹, Mari Hikosaka-Kuniishi¹, Naoto Ishii², Takanori So¹¹Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan,²Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan

WS01-17-P

WDR11 Interacts with NLRC5 and MHC-I Enhanceosome Proteins to mediate a minor effect on MHC-I Expression○ Wei Jie Cheah¹, Atsuki Takeishi^{1,2}, Koichi Kobayashi^{1,2,3}¹Department of Immunology, Hokkaido University Graduate School of Medicine, ²Hokkaido University Institute for Vaccine Research and Development, ³Department of Microbial Pathogenesis and Immunology, Hokkaido University Graduate School of Medicine

WS01-18-P

PD-1 suppresses CAR signaling by forming the inhibitory signalosome colocalizing to CAR microclusters○ Hiroaki Machiyama, Yosuke Yoshida, Ei Wakamatsu, Arata Takeuchi, Hitoshi Nishijima, Tadashi Yokosuka
Tokyo Medical University

WS01-19-P

Development of a method for identifying rare antigen-specific T cell clones by integrating a protein language model and optimal transport

○ Kyohei Kinoshita, Tetsuya Kobayashi

The University of Tokyo

WS01-20-P

Efficient inhibition of DNAM-1 clustering via sequestering CD155 from DNAM-1-TCR microclusters by CD96 with height

○ Ei Wakamatsu, Ann Hattori, Hiroaki Machiyama, Hiroko Toyota, Ryuji Hashimoto, Hitoshi Nishijima, Arata Takeuchi, Tadashi Yokosuka
Tokyo Medical University

December 10

WS02 Tumor Immunity - Innate response

WS02-01-P

Myeloma-introduced Type I conventional dendritic cells support the tumor progression

○ Kazuma Komiya¹, Sayaka Suzuki^{1,2}, Miya Yoshino¹, Tsuneyasu Kaisho³, Koji Kawamura², Koji Tokoyoda¹
¹Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan, ²Division of Hematology and Clinical Laboratory Medicine, Faculty of Medicine, Tottori University, Yonago, Japan, ³Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan

WS02-02-P

Repurposing virus-specific memory CD8+ T cells for immunotherapeutic targeting of virus-infected tumor cells

○ Yeaji Kim, Yong Woo Jung
Korea University

WS02-03-O/P

Human SIRPα antibody monotherapy activates human macrophages to suppress renal cell carcinoma growth in a humanized mouse model

○ Tania Afroj^{1,2}, Tomoko Takai², Takenori Kotani³, Yoji Murata³, Ikumi Katano⁴, Yuchi Iida¹, Takeshi Takahashi⁴, Takashi Matozaki², Yasuyuki Saito^{1,2}
¹Department of Immunology, Faculty of Medicine, Shimane University, ²Division of Biosignal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan, ³Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan, ⁴Department of Basic Research for Laboratory Animals, Central Institute for Experimental Medicine and Life Science, Kawasaki, Japan

WS02-04-O/P

The role of thymic pDC in tumor immune tolerance

○ Yangsong Wang, Ryo Nasu, Yukihiro Endo, Motoko Y Kimura
Chiba University

WS02-05-P

The diverse anti-metastatic responses of NK cells in the disseminating target organs

○ Ka He¹, Kouki Sekiya¹, Yui Shinzawa^{1,2}, So-Ichiro Sasaki¹, Yoshihiro Hayakawa¹
¹Section of Host Defences, Institute of Natural Medicine, University of Toyama, ²Department of Molecular Genetics, Kanazawa University

WS02-06-P

Clec4A4 acts as a negative immune checkpoint regulator to suppress antitumor immunity

○ Tomofumi Uto, Tomohiro Fukaya, Shuya Mitoma, Katsuaki Sato
University of Miyazaki

WS02-07-P

Myeloma cell-derived monoclonal immunoglobulins drive pro-tumorigenic inflammation by promoting the secretion of IL-1β from dendritic cells

○ Mariko Ishibashi¹, Mika Sunakawa-Kii^{1,2}, Rimpei Morita¹
¹Department of Microbiology and Immunology, Nippon Medical School, ²Department of Hematology, Nippon Medical School

WS02-08-O/P

Tumor-Infiltrating Mast Cells Are Associated With Better Efficacy Of Neoadjuvant Therapy By Modulating Desmoplastic Microenvironment

○ Xiangmei Zhang^{1,3}, Yunjiang Liu², Jidong Zhao³
¹Cancer Institute of Hebei Province, Fourth Hospital of Hebei Medical University, Shijiazhuang City, 050011, China, ²Department of Breast Center, Fourth Hospital of Hebei Medical University, Shijiazhuang 050011, China, ³Department of Thoracic Surgery, Fourth Hospital of Hebei Medical University, Shijiazhuang 050011, China

WS02-09-P

Fibroblastic reticular cell-derived CXCL12 regulates anti-tumor immune responses in tumor-draining lymph nodes:

○ Yasuhiro Kanda², Zizheng Wei², Madoka Ozawa², Takashi Nagasawa¹, Tomoya Katakai²

¹Laboratory of Stem Cell Biology & Developmental Immunology, Graduate School of Frontier Biosciences, The University of Osaka, ²Department of Immunology, Niigata University Graduate School of Medical and Dental Sciences

WS02-10-P

Immunometabolic Crosstalk: Fbp1-Mediated Metabolic Reprogramming of Macrophages in Pancreatic Cancer

○ Jiao Ma¹, Wei Jia²

¹Hong Kong Baptist University, ²The University of Hong Kong

WS02-11-O/P

Loss of Histone Methyltransferase Ezh2 Exacerbates Polarization of Macrophages toward M2-Like Phenotypes by Hepatocellular Carcinoma

○ Tanapat Palaga^{1,4}, Kittin Weerasopon¹, Atsadam Boonmee², Patipark Kueanjinda³

¹Faculty of Science, Chulalongkorn University, ²Faculty of Medicine Siriraj Hospital, Mahidol University, ³Department of Pathology, UMass Chan Medical School, University of Massachusetts Worcester, ⁴Center of Excellence in Immunology and Immune-Mediated Diseases, Chulalongkorn University

WS02-12-P

Komaroviquinone-Derived Compounds Induce Immunogenic Cell Death and Suppress Tumor Growth in vivo

○ Natsumi Seki¹, Keita Yoshikawa¹, Taisei Fujinami¹, Koki Kurita¹, Himari Yamada¹, Yusuke Yamamoto², Yutaka Suto³, Maiko Matsushita¹

¹Division of Clinical Physiology and Therapeutics, Keio University, Faculty of Pharmacy, Tokyo, Japan, ²Division of Cellular Signaling, National Cancer Center Research Institute, Tokyo, Japan, ³Takasaki University of Health and Welfare, Faculty of Pharmacy, Takasaki, Japan

WS02-13-P

Bacterial infection induces transient melanoma dedifferentiation with attenuated antigenicity

○ Yutaka Horiuchi, Sara Hatazawa, Riko Kumatabara, Yukie Ando, Momo Mataka, Mio Nakajima, Rikuto Sone, Akihiro Nakamura, Mieko Tokano, Tomonaga Ichikawa, Takashi Murakami

Saitama Medical University

WS02-14-O/P

Abscopal Effect of Oncolytic HSV-1 is Dependent on Plasmacytoid Dendritic Cells

○ Shumpei Uchida¹, Hiroyuki Kubo¹, Katsuaki Sato², Ryutaro Fukui³, Kensuke Miyake³, Tomoki Todo³, Norimitsu Kadowaki¹

¹Division of Hematology, Rheumatology and Respiratory Medicine, Faculty of Medicine, Kagawa University, ²Division of Immunology, Faculty of Medicine, University of Miyazaki, ³Division of Infectious Genetics, Institute of Medical Science, the University of Tokyo

WS02-15-P

DNA delivered via lipid nanoparticles effectively modulates immune responses in cancer immunotherapy by activating interferon signaling

○ Chen-Yi Chiang¹, Ming-Shu Hsieh¹, Mei-Yu Chen¹, Guann-Yi Yu¹, Ming-Hsi Huang^{1,2,3}, Shih-Jen Liu^{1,2,3}, Hsin-Wei Chen^{1,2,3}

¹National Health Research Institutes, ²China Medical University, ³Kaohsiung Medical University

WS02-16-O/P

Cancer immunotherapy using CCL19-expressing allogeneic mesenchymal stem cells exerts robust anti-tumor effects in mouse model

○ Yuichi Iida, Mamoru Harada, Yasuyuki Saito

Shimane University, Faculty of Medicine, Department of Immunology

WS02-17-O/P

Adenosine-Induced Regnase-1 Expression in Tumor-Associated Macrophages Suppresses T Cell Anti-Tumor Activity

○ Xingyu Rong¹, Hai Wang², Osamu Takeuchi¹

¹Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ²Key Laboratory of Breast Cancer in Shanghai, Department of Breast Surgery, Fudan University Shanghai Cancer Center, Shanghai Medical College, Fudan University, Shanghai, P.R. China

WS02-18-P

Enhanced anti-tumor effects of a novel CpG ODN, A602, potentiated by CXCL14 and IL-10R blockade○ Kosuke Tanegashima^{1,2}, Eiji Esashi³, Manaka Hasebe^{2,4}, Riku Takahashi^{2,5}, Risa Saito^{2,5}, Koji Ishida³, Ayumi Kotaki³, Hiroyuki Sasanuma¹, Takahiko Hara^{2,4,5}¹Genome Dynamics project, Tokyo Metropolitan Institute of Medical Science, ²Stem Cell project, Tokyo Metropolitan Institute of Medical Science, ³Ginkgo Biomedical Research Institute, R&D Department, SBI Biotech Co. Ltd., ⁴Graduate School of Science, Department of Biological Science, Tokyo Metropolitan University, ⁵Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University

WS02-19-P

Identification of molecules derived from dead cells involved in immune response and maintenance of host homeostasis○ Hideyuki Yanai^{1,2}¹The University of Tokyo, ²Yokohama City University

December 10

WS03 Hematopoiesis and diseases

WS03-01-P

Enabling cross-instrument standardization using a dried 20-color spectral and imaging immunophenotyping panel on the BD FACSDiscover™ A8 Cell Analyzer○ Hiroyuki Kayo¹, Woodrow Lomas², Keisuke Yuki¹, Aaron Middlebrook²¹Nippon BD Biosciences, ²BD Biosciences

WS03-02-P

Synergistic Spatial Profiling: Unifying Xenium Transcriptomics and Imaging Mass Cytometry Proteomics for Holistic Tissue Characterization○ Tatsuro Nakajima¹, Qanber Raza², Atefeh Khakpoor^{3,4}, Merrin Mary Eapen^{3,4}, Dina Kazemi³, Erin Coll⁵, Thomas Pfister², Liang Qiao⁶, Anna Di Bartolomeo⁶, Helen McGuire⁵, Jacob George⁶, Ankur Sharma^{3,4}¹Standard BioTools K.K., ²Standard BioTools Inc., South San Francisco, CA, USA, ³Garvan Institute of Medical Research, Sydney, NSW, Australia, ⁴University of New South Wales, Sydney, NSW, Australia, ⁵University of Sydney, School of Medical Sciences, NSW, Australia, ⁶Storr Liver Centre, Westmead Institute, University of Sydney, NSW, Australia

WS03-03-O/P

The codon usage sensor DHX29 maintains hematopoietic stem cell quiescence

○ Ting Cai, Masanori Yoshinaga, Osamu Takeuchi

Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS03-04-P

Characterization of Gut Bacteria with Strong Stimulatory Activity on Hematopoiesis and Immune Cell Reconstitution

○ Tanakorn Srirat, Yun-Gi Kim

Kitasato University

WS03-05-O/P

Development of Irradiation-Free Mouse bearing Fully Xenogeneic blood System by Intraplacental Transplantation and RUNX1 Deficiency○ Chingwei Liao^{1,3,4}, Hyojung Jeon², Michito Hamada^{1,4}, Satoru Takahashi^{1,4}¹University of Tsukuba, ²Division of Cell Regulation, Center for Experimental Medicine and Systems Biology, The Institute of Medical Science, The University of Tokyo, ³Human Biology Program, University of Tsukuba, ⁴Department of Anatomy and Embryology, University of Tsukuba

WS03-06-P

Nfkbiz regulates the myeloid bias of hematopoietic stem cell during chronic IL-1b-mediated inflammation○ Kazunori Toratani^{1,2,3}, Takuya Uehata¹, Osamu Takeuchi¹¹Department of Medical Chemistry Graduate School of Medicine, Kyoto University, ²"Kibou Projects" Scholarship for Doctoral Students,³Department of Hematology, Graduate School of Medicine, Kyoto University

WS03-07-O/P

Transcription factor trinity, E2A, Ebf1 and Erg, guides B cell fate: Insights from Single-Cell RNA-Seq○ Rinako Hayashi¹, Reiko Hidaka¹, Kazuko Miyazaki¹, Takashi Nagasawa², Hiroshi Kawamoto¹, Masaki Miyazaki¹¹Institute for Life and Medical Sciences, Kyoto University, ²Graduate School of Frontier Biosciences, The University of Osaka

WS03-08-O/P

Non-canonical PRC1 complexes are required for lymphoid lineage specification

○ Mayumi Hirakawa, Lisa Hirano, Tomokatsu Ikawa

Tokyo University of Science

WS03-09-P

Immunophenotypic profile of a novel oncogenic splicing factor, serine/arginine-rich splicing factor 5 (Srsf5) conditional knockout mice

○ Yukiko Wadamori, Hideyuki Yanai
The University of Tokyo

WS03-10-P

The role Bcl6 in the regulation of erythropoiesis

○ Kenji Oba, Ryuji Owada, Tomoko Asatsuma-Okumura, Yoshiko Iwai
Nippon Medical School

WS03-11-P

IL-6-C/EBP β signaling drives monocytic differentiation of murine cultured lymphoid progenitors with immunoregulatory properties

○ Yohei Kawano¹⁾, Nozomi Katsuya¹⁾, Mizuki Moriyama¹⁾, Shun Ohki²⁾, Yasuo Kitajima¹⁾, Tomoharu Yasuda¹⁾
¹⁾Department of Immunology, Hiroshima University, ²⁾The University of Kitakyushu

WS03-12-O/P

CB2 Receptor Signaling and Its Impact on Immune cells via HSPC Populations

○ Nuzat Tabassum Islam¹⁾, Toru Asahi^{1, 2, 3)}, Chihiro Nozaki^{1, 4)}, Haruka Hosoki¹⁾
¹⁾Department of Life Science and Medical Bioscience, School of Advanced Science and Engineering, Waseda University, ²⁾Comprehensive Research Organization, Waseda University, ³⁾Research Organization for Nano and Life Innovation, Waseda University, ⁴⁾Global Center for Science and Engineering, Waseda University

WS03-13-O/P

Angiopoietin-like 4 regulates the pathogenesis of pulmonary fibrosis via the phenotypic conversion between myofibroblast and lipofibroblast

○ Masahiro Kitabatake¹⁾, Atsushi Hara¹⁾, Kaito Yasuike¹⁾, Ryutaro Furukawa¹⁾, Akihisa Oda²⁾, Noriko Oujii-Sageshima¹⁾, Toshihiro Ito¹⁾
¹⁾Department of Immunology, Nara Medical University, ²⁾Department of Pediatrics, Nara Medical University

WS03-14-O/P

A Dual-Targeting Strategy to Inhibit the Development of Neutralizing Anti-FVIII Antibodies in a Murine Model of Hemophilia A

○ Akihisa Oda¹⁾, Kenichi Ogiwara¹⁾, Masahiro Kitabatake²⁾, Noriko Oujii-Sageshima²⁾, Atsushi Hara²⁾, Kaito Yasuike²⁾, Toshihiro Ito²⁾, Keiji Nogami¹⁾
¹⁾Department of Pediatrics, Nara Medical University, ²⁾Department of Immunology, Nara Medical University

December 10

WS04 Arthritis and Fibrosis

WS04-01-O/P

GM-CSF controls pathogenic function of Ly6Chi monocyte-derived macrophages crucial for synovial inflammation in autoimmune arthritis

○ Hiroki Mukoyama^{1, 2)}, Yusuke Takeuchi^{1, 2)}, Daiya Ohara¹⁾, Yoonha Lee¹⁾, Hitomi Watanabe¹⁾, Gen Kondoh¹⁾, Akio Morinobu²⁾, Keiji Hirota¹⁾
¹⁾Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, ²⁾Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University

WS04-02-O/P

Aging-related alterations of effector CD4⁺ T cells in arthritis model mice

○ Shusuke Tanaka, Taihei Nishiyama, Airi Kondo, Ayako Ohyama, Hiromitsu Asashima, Haruka Miki, Yuya Kondo, Hiroto Tsuboi, Isao Matsumoto
Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS04-03-O/P

Exploring the epigenomic landscapes of synovial fibroblast diversification in rheumatoid arthritis by single-nucleus multi-omics analyses

○ Reo Yamazato¹⁾, Risa Yoshihara¹⁾, Ikuro Takazawa¹⁾, Sotaro Nakajima¹⁾, Yasunori Omata²⁾, Sakae Tanaka²⁾, Tomohisa Okamura³⁾, Haruka Tsuchiya¹⁾, Keishi Fujio¹⁾
¹⁾Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ²⁾Department of Orthopaedic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ³⁾Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

WS04-04-O/P

Neoself IgG is a Primary Antigen Driving the Clonal Expansion of Autoreactive T Cells in Rheumatoid Arthritis

○ Jing Yang^{1,2}, Shunsuke Mori¹, Hui Jin¹, Hiroyuki Yoshitomi^{3,4}, Hideki Ueno^{3,4}, Hisashi Arase^{1,2}

¹Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka, ²World Premier International Immunology Frontier Research Centre, The University of Osaka, ³Department of Immunology, Graduate School of Medicine, Kyoto University, ⁴Institute for the Advanced Study of Human Biology, Kyoto University

WS04-05-O/P

Using Tocilizumab to Treat Castleman Disease and Rheumatoid Arthritis:Blocking IL-6 Improves pathology of Diseases with different Etiologies

○ Kazuko Uno¹, Kazuyuki Yoshizaki²

¹Louis Pasteur Center for Medical Research, ²The Institute of Scientific and Industrial Research, SANKEN, The University of Osaka

WS04-06-P

Computer model of remote inflammation of rheumatoid arthritis

○ Satoshi Yamada¹, Akihiko Yoshimura², Kaoru Murakami³, Rie Hasebe⁴, Masaaki Murakami^{3,4,5}

¹Okayama University of Science, ²Tokyo University of Science, ³Hokkaido University, ⁴National Institute for Physiological Sciences, ⁵National Institutes for Quantum and Radiological Science and Technology

WS04-07-P

Regulatory T cells show differential therapeutic effects in chronic autoimmune conditions depending on target tissue

○ Yuji Nishimura, Hiroshi Kawamoto

Kyoto University

WS04-08-P

Intermittent pharmacological cell-cycle arrest provides anti-arthritis effects preserving favorable safety profile

○ Risa Tsubota, Hiroyuki Baba, Akio Yamamoto, Natsuka Umezawa, Tetsuya Saito, Shinsuke Yasuda, Tadashi Hosoya
Institute of Science Tokyo

WS04-09-P

Periodontitis-associated oral commensal microbes contribute to the pathogenesis of arthritis

○ Takehiro Suzuki^{1,2}, Sho Kitamoto¹, Masayuki Nishide², Atsushi Kumanogoh², Nobuhiko Kamada¹

¹Laboratory of Microbiology and Immunology, Immunology Frontier Research Center, The University of Osaka, ²Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, The University of Osaka

WS04-10-P

Expression analysis of TIGIT and DNAM-1 in GPI-induced arthritis

○ Airi Kondo, Hiromitsu Asashima, Shusuke Tanaka, Taihei Nishiyama, Ayako Ohyama, Haruka Miki, Yuya Kondo, Hiroto Tsuboi, Isao Matsumoto

University of Tsukuba

WS04-11-P

The enteric nervous system is involved in the pathogenesis of arthritis via the intestinal flora

○ Takayoshi Owada¹, Anna Hasegawa², Ayae Tanaka², Keiko Hatanaka², Wataru Fujii², Hirokuni Hirata¹, Kazuhiro Kurasawa², Kei Ikeda², Hiroshige Yoshioka¹, Masahiko Hatano³, Masafumi Arima²

¹Department of Respiratory Medicine and Clinical Immunology, Dokkyo Medical University Saitama Medical Center, Saitama, Japan,

²Department of Rheumatology, Dokkyo Medical University, Tochigi, Japan, ³Department of Biomedical Science, Graduate School of Medicine, Chiba University, Chiba, Japan

WS04-12-P

Effects of Autoimmune Disease on Pulp healing Following Direct Pulp Capping in Mice

○ Noriko Muto, Nobuyuki Tani-ishii

The Nippon Dental University Hospital

WS04-13-O/P

RANKL controls vascular permeability in bone marrow sinusoids

○ Takeshi Kaneko^{1,2,3}, Shinya Yari¹, Junichi Kikuta^{1,3,4}, Atsushi Kumanogoh^{2,3}, Masaru Ishii^{1,3}

¹Department of Immunology and Cell Biology, Graduate School of Medicine and Frontier Biosciences, The University of Osaka, Osaka, Japan,

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³WPI-Immunology Frontier Research Center, The University of Osaka, Osaka, Japan, ⁴Division of Immunology, Department of Future Medical Sciences, Graduate School of Medicine, Kobe University, Hyogo, Japan

WS04-14-O/P

Microbiota-derived peptide corisin promotes cellular senescence in podocytes

○ Tomoko Ano¹, Taro Yasuma^{1,2}, Valeria Fridman¹, Corina Gabazza¹, Atsuro Takeshita^{1,2}, Yuko Okano², Chisa Inoue², Kota Nishihama², Masaaki Toda¹, Esteban Gabazza¹

¹Department of Immunology, Mie University Graduate School of Medicine, ²Department of Diabetes & Endocrinology, Mie University Graduate School of Medicine

WS04-15-P

Pericytes Protect against Pulmonary Fibrosis through Fibrotic Neutrophils Regulation○ Yingying Zhang^{1,3}, Tadimitsu Kishimoto^{1,2}, Sujin Kang^{1,2}¹Laboratory of Immune Regulation, WPI Immunology Frontier Research Center, The University of Osaka, ²Center for Infectious Disease Education and Research, The University of Osaka, Suita, Osaka 565-0871, Japan, ³Laboratory of Immune Regulation, Graduate School of Frontier Biosciences, The University of Osaka

WS04-16-P

Direct analysis of hepatic stellate cells with flow cytometry in specimens derived from the human liver○ Toshiaki Bando¹, Hiroataka Sato¹, Shunsuke Uno¹, Hajime Morita¹, Lynn Zreka¹, Shuhe Ma^{1,3}, Mouna Khan¹, Daichi Akuzawa¹, Yuki Masuo¹, Takeshi Ito², Hideki Ueno^{1,3,4}¹Department of Immunology, Graduate School of Medicine, Kyoto University, ²Division of Hepato-Biliary-Pancreatic Surgery and Transplantation, Department of Surgery, Graduate School of Medicine, Kyoto University, ³ASHBi Institute for the Advanced Study of Human Biology, Kyoto University, ⁴Kyoto University Immunomonitoring Center (KIC), Kyoto University**December 10****WS05 Skin and Mucosal Immunity**

WS05-01-O/P

Keratinocyte Cx26 Gain-of-Function Mutation Compromises Anti-Candida Skin Defense via Impaired Sensing and Chemokine Production○ Alshimaa Mostafa¹, Teruasa Murata², Akihiko Kitho¹, Kenji Kabashima¹¹Department of Dermatology, Kyoto University Graduate School of Medicine, Japan, ²Department of Dermatology, Hyogo Medical University, Japan

WS05-02-P

Epidermis-derived Hyaluronan Synthesized by Hyaluronan Synthase 3 Promotes Th2 inflammation by Regulating CCL19-Producing Dermal Fibroblasts in Atopic Dermatitis○ Takehiro Takahashi¹, Mayuko Onodera-Amagai¹, Takuya Takahashi¹, Hitoshi Terui¹, Toshiya Takahashi¹, Maki Ozawa¹, Risa Ebina-Shibuya^{2,3}, Hiroki Kato⁴, Kazuki Sakurai⁴, Yu Yamaguchi⁵, Setsuya Aiba¹, Yoshihide Asano¹¹Department of Dermatology, Tohoku University Graduate School of Medicine, Sendai, Japan, ²Department of Medical Science and Innovation, SRIUS Institute of Medical Research, Tohoku University, Sendai, Japan, ³Department of Respiratory Medicine, Tohoku University Graduate School of Medicine, Sendai, Japan, ⁴Department of Hematology, Tohoku University Graduate School of Medicine, Sendai, Japan, ⁵Human Genetics Program, Sanford Burnham Prebys Medical Discovery Institute, La Jolla, California, USA

WS05-03-P

ILC1-Derived Amphiregulin Regulates Epithelial Turnover in Response to Mechanical Stress in the Skin○ Tetsuro Kobayashi¹, Miho Mochizuki¹, Naho Hagiwara¹, Hachiro Iseki², Katsuhito Fujii³, Daisuke Asanuma⁴, Kazuyo Moro^{1,5,6}¹Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences (IMS), ²Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences (IMS), ³Department of Cardiovascular Medicine, Graduate School of Medicine, The University of Tokyo, ⁴Department of Pharmacology, Graduate School of Medicine, The University of Tokyo, ⁵Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, The University of Osaka, ⁶Laboratory for Innate Immune Systems, Immunology Frontier Research Center (iFReC), The University of Osaka

WS05-04-O/P

Identification of an Atypical Keratinocyte Subset as the Primary Source of IL-23 in Psoriatic Skin Inflammation○ Yoonha Lee¹, Daiya Ohara^{1,2}, Hiroki Mukoyama^{1,3}, Yusuke Takeuchi^{1,3}, Kazuki Sakatoku¹, Hitomi Watanabe¹, Akinori Takaoka⁴, Toshiaki Ohteki⁵, Junji Takeda⁶, Gen Kondoh¹, Hideo Harigae⁷, Keiji Hirota^{1,8}¹Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan, ²The Hakubi Center for Advanced Research, Kyoto University, Kyoto, Japan, ³Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ⁴Division of Signaling in Cancer and Immunology, Institute for Genetic Medicine, Hokkaido University, Hokkaido, Japan, ⁵Department of Biodefense Research, Medical Research Laboratory, Institute of Integrated Research, Institute of Science Tokyo, ⁶Research Institute for Microbial Diseases, The University of Osaka, Osaka, Japan, ⁷Department of Hematology, Tohoku University Hospital, Sendai, Japan, ⁸ImmunoSensation Cluster of Excellence, University of Bonn, Bonn, Germany

WS05-05-P

Cold Exposure during Sensitization Phase Enhances Murine Contact Hypersensitivity Response

○ Tomoya Takegami, Satoru Yonekura, Shuto Kanameishi, Koki Kataoka, Midori Uchibayashi, Marco Llantuy-Aulestia, Saeko Nakajima, Kenji Kabashima

Kyoto University

WS05-06-O/P

Spatial reconstitution of inducible skin-associated lymphoid tissue (iSALT) uncovers local crosstalk between CD301b+ cDC2 and CD8+ T cell in contact dermatitis

○ Fuuka Minami¹⁾, Ryota Asahina^{1,2)}, Akiyoshi Senda¹⁾, Gyohei Egawa³⁾, Satoshi Nakamizo¹⁾, Kenji Kabashima¹⁾

¹⁾Department of Dermatology, Kyoto University, ²⁾ Center for One Medicine Innovative Translational Research (COMIT), Gifu University,

³⁾Department of Dermatology, Kagoshima University

WS05-07-O/P

CXCL16–CXCR6 axis anchors epidermal CD8⁺ TRM cells to promote recall responses in a contact hypersensitivity model

○ Takahide Iioka¹⁾, Ryota Asahina^{1,2)}, Fuuka Minami¹⁾, Toshiya Miyake¹⁾, Kenji Kabashima¹⁾

¹⁾Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾Center for One Medicine Innovative Translational Research, Gifu University, Gifu, Japan

WS05-08-P

Tn antigen suppresses lipopolysaccharide-induced dermatitis via Clec10a

○ Katsunobu Shigematsu^{1,2)}, Kenshiro Matsuda^{1,3,4)}, Tsukasa Nabekura^{3,4)}, Kazuko Shibuya^{1,4)}, Hiroaki Tateno⁵⁾, Akira Shibuya^{1,3,4)}

¹⁾Department of Immunology, Institute of Medicine, University of Tsukuba, ²⁾Ph.D. Program in Humanics, University of Tsukuba, ³⁾Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance, University of Tsukuba, ⁴⁾R&D Center for Innovative Drug Discovery, University of Tsukuba, ⁵⁾Cellular and Molecular Biotechnology Research Institute, National Institute of Advanced Industrial Science and Technology (AIST)

WS05-09-P

Sulfotransferase SULT2B1 Maintains the Epithelial–Immune Microenvironment Homeostasis in Imiquimod-Induced Psoriatic Dermatitis

○ Kenji Morino, Sayaka Akiyoshi, Yoshinori Fukui, Kazufumi Kunimura

Medical Institute of Bioregulation, Kyushu University

WS05-10-P

Lowering uric acid levels suppresses psoriatic inflammation in an imiquimod-induced psoriasis model

○ Yoshitaka Kimura, Yayoi Tada, Yusuke Yoshino, Hajime Kono

Teikyo University

WS05-11-P

Identification of Novel Roles of Lysophospholipids in Psoriasiform Dermatitis

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WS05-12-O/P

Dry skin–associated neonatal immune dysregulation in Langerhans cells triggers atopic dermatitis development

○ Tomoka Ito¹⁾, Reika Aoyama¹⁾, Seitaro Nakagawa^{1,2)}, Naohiro Inohara³⁾, Yoko Ichikawa⁴⁾, Naoki Shimojo⁵⁾, Manabu Fujimoto^{1,6)}, Yumi Matsuoka-Nakamura^{1,2,7)}

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WS05-13-O/P

Constipation-Induced Gut Dysbiosis Aggravates Acne through Tryptophan Metabolites Depletion

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WS05-14-O/P

Th17-Derived RANKL Drives Club-to-M Cell Transdifferentiation to Aggravate Secondary Bacterial Pneumonia

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WS05-15-P

Nasal Nanogel-based PspA Vaccine Elicits Protective Immunity Against *Streptococcus pneumoniae* in Aged Mice

○ Korrie Salsabila^{1,2}, Fujimi Arai^{3,4}, Risa Takahashi^{3,4}, Tomoyuki Yamanoue^{3,4}, Yoshikazu Yuki³, Hiroshi Kiyono^{3,4,5,6,7,8}, Naruhiko Ishiwada², Kohtaro Fujihashi^{3,4,8,9,10}

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WS05-16-O/P

Alcaligenes lipid A acts as a potent sublingual vaccine adjuvant to augment protective immune responses both in the respiratory and gastrointestinal tracts

○ Ken Yoshii^{1,2}, Yuki Hirayama^{1,2}, Keigo Iemitsu^{1,3}, Hiroshi Kiyono^{4,5,6}, Jun Kunisawa^{1,2,3,4,7,8,9,10}

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WS05-17-P

Mild heat stimuli affect systemic immune conditions differently dependent on combinations of specific skin surface points - a clinical study -

○ Takuma Nakajima, Atsuko Shimada, Atsuko Masuda, Ryo Saito, Keiso Ishimaru
SBC Tokyo Medical University

WS05-18-P

Heterogeneity in the murine conjunctival goblet cells

○ Keiji Matsumoto^{1,2,3}, Tomoaki Ando¹, Yasuharu Kume^{1,2,3}, Ryo Omori^{1,2,3}, Meiko Kimura^{1,2,3}, Moe Matsuzawa^{1,2,3}, Kumi Izawa¹, Ayako Kaitani¹, Ko Okumura¹, Shintaro Nakao³, Nobuyuki Ebihara^{2,3}, Jiro Kitaura^{1,4}

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December 10

WS06 B cell development, activation, and antibody production

WS06-01-O/P

The interplay between transcription factors E2A and Erg shapes the enhancer landscape underlying B cell identity and signature gene expression

○ Reiko Hidaka^{1,2}, Kazuko Miyazaki^{1,2}, Hiroshi Kawamoto^{1,2}, Masaki Miyazaki^{1,2}

¹Kyoto University, ²Institute for Life and Medical Sciences

WS06-02-O/P

In vivo acute degradation of E2A reveals its enhancer regulations in early lymphocyte development and activation

○ Rei Kuwata¹, Kazuko Miyazaki¹, Hitomi Watanabe¹, Ichiro Taniuchi², Hiroshi Kawamoto¹, Masaki Miyazaki¹

¹Kyoto University, ²RIKEN Center for Integrative Medical Sciences

WS06-03-O/P

EMC1 enforces an ER-integrated checkpoint for B cell activation and humoral immunity

○ Kazuhiko Kawata, Yoshihiro Baba

Division of Immunology and Genome Biology, Medical Institute of Genome Bioregulation, Kyushu University

WS06-04-P

CD72 is a novel C1q receptor that inhibits B cell responses to apoptotic cells, crucial in the development of SLE

○ Hashadi Nadeesha Walakulu Gamage^{1,2}, Takeshi Tsubata^{1,2}, Nadeesha Gayathri Hewassa Gamage¹, Chizuru Akatsu¹, Tsuneshige Takahiro¹, Nobutaka Numoto¹, Masatake Asano², Nobutoshi Ito¹

¹Institute of Science Tokyo, ²Department of Pathology, Nihon University

WS06-05-P

Role of IRF4 in transcriptional regulation through autoimmune disease-associated proteins Swap70 and Def6 and its subcellular localization

○ Katsuya Sato, Hitoshi Nagaoka

Department of Molecular Pathobiochemistry, Gifu University School of Medicine

WS06-06-P

Ectopic expression of Parm1 revealed the existence of two novel glycosylation form

○ Chinatsu Yanagawa¹⁾, Kagefumi Todo²⁾, Haruka Honda³⁾, Masaki Hikida¹⁾¹⁾Akita University, ²⁾Tokiwa University, ³⁾Anan College

WS06-07-P

Establishment and analyses of anti-Parm1 monoclonal antibody

○ Koki Wagatsuma¹⁾, Kagefumi Todo²⁾, Haruka Honda³⁾, Masaki Hikida¹⁾¹⁾Akita University, ²⁾Tokiwa University, ³⁾Anan College

WS06-08-P

Lymphocyte function-associated antigen-1 is involved in the regulation of IgE class switch recombination and production in human peripheral blood B cells

○ Kano Tanabe, Yukinori Kozuma

Kumamoto Health Science University

WS06-09-O/P

The importance of IL-1 - IL-1 receptor signaling to T-cell-independent type 2 responses

○ Mari Tenno, Daisuke Kitamura

Tokyo University of Science

WS06-10-P

Innate immune memory in complexin 2-expressing innate-like B cells mediated by TLR4

○ Emi Tsuru¹⁾, Yoshihiro Yamashita¹⁾, Atsuya Nobumoto²⁾, Masayuki Tsuda¹⁾¹⁾Division of Animal Resources Development, Science Research Center, Kochi University, ²⁾Division of Research Facilities and Equipment Support, Science Research Center, Kochi University

WS06-11-O/P

In vivo conversion to broader and non-self-reactive influenza virus-specific antibody

○ Chieko Okamura^{1,2)}, Hikaru Hata^{2,3)}, Takashi Watanabe⁴⁾, Mikako Shirouzu⁵⁾, Ryota Sato^{2,3)}, Qingshun Lin²⁾, Taishi Onodera⁶⁾, Yoshimasa Takahashi⁶⁾, Quan-Zhen Li⁷⁾, Yoshinobu Okuno⁸⁾, Tomohiro Kurosaki^{2,9)}, Hidehiro Fukuyama^{1,2,3,10)}¹⁾Division of Immunology, Near Infrared Photo-ImmunoTherapy Research Institute, Kansai Medical University, Hirakata, Osaka 573-1010, Japan, ²⁾Laboratory for Lymphocyte Differentiations, RIKEN Center for Integrative Medical Sciences (IMS), Yokohama, Kanagawa 230-0045, Japan, ³⁾Cellular Systems Laboratory, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Kanagawa 230-0045, Japan, ⁴⁾Laboratory for Integrative Genomics, RIKEN IMS, Yokohama, Kanagawa 230-0045, Japan, ⁵⁾Laboratory for Protein Functional and Structural Biology, RIKEN IMS, Yokohama, Kanagawa 230-0045, Japan, ⁶⁾Research Center for Vaccine Development, National Institute of Infectious Diseases, Japan Institute for Health Security, Tokyo 162-8640, Japan, ⁷⁾Genecopoeia Inc., Rockville, MD 20850, USA, ⁸⁾Osaka Institute of Public Health, Osaka, 537-0025, Japan, ⁹⁾Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, The University of Osaka, Osaka 565-0871, Japan, ¹⁰⁾INSERM EST, Strasbourg Cedex 2, 67037, France

WS06-12-P

Agonistic anti-RP105 monoclonal antibody induces IgD production, unlike other B cell stimulants

○ Tatsuya Yamazaki¹⁾, Kenta Iwasaki²⁾, Susumu Tomono¹⁾, Masanori Inui¹⁾, Sachiko Akashi-Takamura¹⁾¹⁾Department of Microbiology and Immunology, Aichi Medical University School of Medicine, ²⁾Department of Kidney Diseases and Transplant Immunology, Aichi Medical University School of Medicine

WS06-13-O/P

Identification of autoantibodies promoting remyelination in aging

○ Ayame Nagafuchi¹⁾, Mana Iizuka²⁾, Ako Matsui¹⁾, Akihiko Yoshimura²⁾, Minako Ito¹⁾¹⁾Kyushu University, ²⁾Tokyo University of Science

WS06-14-P

Enhanced lymphocyte infiltration in the liver of LDL receptor and MD-1 double-deficient mice on a high-fat diet

○ Sachiko Akashi-Takamura¹⁾, Mrityunjay Biswas¹⁾, Kenji Kasai²⁾, Masanori Inui¹⁾, Naoko Morita¹⁾, Akinori Okumura¹⁾, Tatsuya Yamazaki¹⁾, Bristy Basak¹⁾, Fumiaki Nagaoka¹⁾, Hidekazu Takagi¹⁾, Susumu Tomono¹⁾¹⁾Aichi Medical University, Dept. of Microbiology and Immunology, ²⁾Aichi Medical University, Dept. of Pathology

WS06-15-P

Immunoglobulin Expression in the Mouse Brain

○ Keiko Morimoto, Hitomi Sano, Kazunori Nakajima

Keio University School of Medicine

WS07 Tolerance and Immune Suppression

WS07-01-O/P

Targeted cell by Treg suppression in vitro and in vivo

○ Yoshihiro Oya^{1,2,4}, Takuya Nakazawa², Ryutaro Matsumura², Hiroshi Nakajima³, Ethan M Shevach⁴

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WS07-02-O/P

A Foxp3-dependent core epigenetic and transcriptional program in Tregs

○ Yuxi Wei, Ryuichi Murakami, Akira Nakajima, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS07-03-O/P

Runx/Cbfb regulates the development of tolerogenic Thetis cells

○ Chihiro Ogawa, Ichiro Taniuchi

RIKEN Center for Integrative Medical Sciences

WS07-04-O/P

Combinatorial analysis of spatial transcriptomics and scRNA-Seq reveals the influence of aging on the differentiation program of thymic epithelial cells

○ Kano Namiki^{1,2}, Takahisa Miyao¹, Nobuko Akiyama^{1,2}, Taishin Akiyama^{1,2}

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WS07-05-O/P

Gravity reduction leads to upregulation of the transcription factor ELF3 in the thymus, which disrupts the thymic epithelial cell differentiation program

○ Wataru Muramatsu¹, Nobuko Akiyama^{1,2}, Takahisa Miyao¹, Masafumi Muratani³, Takashi Kudo⁴, Satoru Takahashi⁴, Taishin Akiyama^{1,2}

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WS07-06-O/P

Immunoepitidomic identification of SLA-derived HLA class II ligands recognized by human T cells, using a strategy adapted for xenotransplantation

○ Kenta Iwasaki¹, Ken Kawasa², Susumu Tomono³, Yuko Miwa¹, Masato Shizuku², Satoshi Ashimine², Kohei Ishiyama², Ekser Burcin⁴, Sachiko Akashi-Takamura³, Takaaki Kobayashi²

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WS07-07-O/P

Function of ectopic MHC class II expression on non-immune cells in immune response

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WS07-08-P

Stochastic martingale turnover of immune cells autonomously achieves appropriate balance

○ Tomoyuki Yamaguchi

Research Institute, Nozaki Tokushukai Hospital

WS07-09-P

Multi-omics Exploration of Spatiotemporal Immune Landscape Remodeling from Rejection to Tolerance in a Mouse Liver Transplantation Model

○ Xin Hu¹, Yixian Fan¹, Yifang Shui^{1,2}, Masayuki Fujino^{1,3}, Xiao-Kang Li¹

¹National Center for Child Health and Development Division of Transplantation Immunology, ²Department of Hepatobiliary and Pancreatic Surgery, The First Affiliated Hospital of Zhengzhou University, Zhengzhou, China, ³National Institute of Infectious Diseases

WS07-10-P

The regulation of c-Myc-mediated oxidative metabolism by a transcription factor Bcl11B is required for effector program of regulatory T cells

○ Kenji Ichiyama, Shimon Sakaguchi

Department of Experimental Immunology, Immunology Frontier Research Center, The University of Osaka

WS07-11-P

Elucidation of atheroprotective function of peripheral blood Treg cells and its molecular and cellular basis

○ Takashi Sekiya

National Institute of Global Health and Medicine

WS07-12-P

TIGIT works as a ligand to suppress activated T cells via CD155 signal and to provide memory potential

○ Naoko Negishi, Jiro Kitaura, Ko Okumura, Sonoko Habu

Juntendo University Graduate School of Medicine

WS07-13-P

Involvement of quercetin on type 3 inflammatory responses via CXCL2 upregulation

○ Miki Oguri, Miyoko Matsushima, Shino Ando, Yuzuki Matsuda, Mihar Kawashima, Hiyori Takano, Tsutomu Kawabe

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December 10

WS08 CD8+ T cell immunity

WS08-01-O/P

TAP-independent induction of N-myristoylated lipopeptide-specific CTLs in transgenic mice expressing rhesus lipopeptide-presenting MHC class I molecules

○ Hiromu Suzuki^{1,2}, Daisuke Morita¹

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WS08-02-O/P

Strategy for achieving both safety and efficacy of CTL-inducing vaccines using a low molecular drug

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WS08-03-O/P

Vitamin C transporter 2, Slc23a2, is required for normal T cell development and optimal CD8+ T cell immune responses

○ Kenta Kondo¹, Mina Kumode^{1,2}, Tatsuya Hasegawa¹, Noriyuki Sugo³, Yasutoshi Agata¹

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WS08-04-O/P

MHC class II restrains colonic CD8 T cell activation via CD4 T cells and LAG-3

○ Tomoya Sengiku¹, Masato Kubo^{2,3}, Takumi Maruhashi⁴, Taku Okazaki⁴, Shohei Hori¹, Ruka Setoguchi¹

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WS08-05-O/P

Dysfunctional Mitochondria Promotes DNA Damage and T Cell Exhaustion in CD8+ T Cells

○ Kung-Chi Kao, Yu-Ming Chuang, Ping-Chih Ho

University of Lausanne

WS08-06-O/P

Single-Cell and Spatial Transcriptomics Reveal Distinct Immune Features in Oral squamous cell carcinoma and IgG4-Related Disease

○ Ling Zhang¹, Takashi Maehara^{1,2}, Marina Koga¹, Risako Koga¹, Ryuichi Aoyagi¹, Yuuka Toda¹, Ryusuke Munemura¹, Shintaro Kawano¹

¹Section of Oral and Maxillofacial Oncology, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University, Fukuoka, Japan, ²Dent-craniofacial Development and Regeneration (DDR) Research Center, Faculty of Dental Science, Kyushu University, Fukuoka, Japan

WS08-07-O/P

Bystander expansion of GzmK⁺GzmB⁺ CD8 T cells in the joint of rheumatoid arthritis

○ Takahiro Natori¹⁾, Hisakata Yamada²⁾, Ryosuke Tsurui¹⁾, Shinya Kawahara¹⁾, Yukio Akasaki¹⁾, Yasuharu Nakashima¹⁾
¹⁾Department of Orthopedic Surgery, Kyushu University, ²⁾Department of Immunology, Kochi University

WS08-08-P

Detection of Memory CD8⁺ T Cell Activation Using Lens-free Shadow Imaging for Vaccine Response Evaluation

○ Hyunjin Moon, Yong Woo Jung
The University of Korea

WS08-09-P

Heterogeneity of CD8⁺ T cells distributed in the aged mouse brain

○ Zhiguan Wang¹⁾, Emi Furusawa-Nishii¹⁾, Kouhei Ohba¹⁾, Sunao Takahashi¹⁾, Miho Mizuno¹⁾, Ayami Okuzumi²⁾, Taku Hatano²⁾, Sachiko Miyake¹⁾
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WS08-10-P

The C-terminal motif of Nkg7, a cytolysis-associated molecule, is essential for its lysosomal targeting and may affect granule exocytosis

○ Ryosuke Kumagai¹⁾, Yuka Okabe^{1,2)}, Ryuichi Nagashima^{1,2)}, Hiroaki Takimoto^{1,2)}, Koji Eshima^{1,2)}
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WS08-11-P

Overexpression of the transcriptional corepressor Tle1 enhances effector proliferation of CD8⁺ T cells during acute and chronic viral infections

○ Sotaro Fujisawa¹⁾, Ryotaro Shiga¹⁾, Yamato Tanabe^{1,2,3)}, Makoto Kurachi¹⁾
¹⁾Department of Molecular Genetics, Graduate School of Medical Science, Kanazawa University, ²⁾Immune Network Research Unit, Pursuit of Truth Research Core, Institute for Frontier Science Initiative, Kanazawa University, ³⁾Division of Immune Environment Dynamics, Cancer Research Institute, Kanazawa University

WS08-12-P

The role of the transcription factor Zscan10 in T cell immune responses

○ Yuri Tsuchiya¹⁾, Rina Matsuda¹⁾, Honoka Miyahara²⁾, Hirotake Tsukamoto²⁾, Ayumi Sumizaki³⁾, Masaki Yasukawa^{1,3)}, Takeshi Yamada^{1,3)}
¹⁾Department of Medical Technology, Ehime Prefectural University of Health Sciences Graduate School of Medicine, Ehime, Japan., ²⁾Kyoto University, Division of Clinical Immunology and Cancer Immunotherapy, Center for Cancer Immunotherapy and Immunobiology (CCII), ³⁾Department of Medical Technology, Ehime Prefectural University of Health Sciences, Ehime, Japan

WS08-13-P

NOSIP promotes the persistency of CD8⁺ T cells under chronic viral infections and tumors

○ Makoto Utsunomiya¹⁾, Toshikatsu Tamai^{1,2)}, Shihui Li²⁾, Sotaro Fujisawa¹⁾, Yamato Tanabe¹⁾, Yui Shinzawa¹⁾, Hidetoshi Nagakawa²⁾, Eishiro Mizukoshi²⁾, Makoto Kurachi¹⁾
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WS08-14-P

A novel filamentous-derived antibiotics derivative exerts anti-tumor effect by inducing differentiation of Tc9-like CD8 T cells

○ Natsumi Imano, Mikako Nishida, Nahoko Yamashita, Miho Tokumasu, Weiyang Zhao, Heiichiro Udonon
Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences

WS08-15-P

Analysis of vitiligo developing in autoimmune prone mice

○ Marii Ise, Yuriko Tanaka, Taku Naito, Taku Kuwabara, Motonari Kondo
Toho University Faculty of Medicine

WS08-16-P

Investigating the function of IFN-γ regulatory gene in CD8⁺ T cells

○ Taku Kureha, Hiroshi Takayanagi
The University of Tokyo

WS08-17-P

Matrix metalloproteinase inhibitor enhances cytotoxic T lymphocyte effector function through tumor cell stimulation

○ Hidefumi Kojima¹⁾, Yuji Nakai²⁾
¹⁾Division for Medical Education Research and Development, Center for Medical Education Development and International Exchange, Dokkyo Medical University School of Medicine, Tochigi, ²⁾Institute of Regional Innovation, Hirosaki University, Aomori

WS08-18-P

Single-cell analysis of vaccine-induced T cells reveals molecular changes associated with impaired memory response in older adults

○ Ayana Sunami^{1,2)}, Norihide Jo^{2,3)}, Yoko Hamazaki^{1,2,4)}

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WS08-19-P

A small Maf protein Maff is essential for survival of peripheral CD8 T cells

○ Masayuki Kitajima, Harumi Suzuki

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December 10

WS09 Tumor Immunity - Microenvironment

WS09-01-P

Cell state analysis of immune cells in the tumor microenvironment with deep learning

○ Jiaxin Li¹⁾, Artem Lysenko²⁾, Tatsuhiko Tsunoda^{1,2)}

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WS09-02-P

Development of ex vivo patient-derived models to uncover the tumor-immune microenvironment

○ Soki Kashima^{1,2)}, David Braun¹⁾

¹⁾Yale School of Medicine, ²⁾Akita University School of Medicine

WS09-03-O/P

Redistribution of Intratumoral Iron with Polymeric Iron Chelator Boosts Antitumor Immunity

○ Haochen Guo¹⁾, Nobuhiro Nishiyama^{1,2,3)}, Takahiro Nomoto⁴⁾

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WS09-04-O/P

Hierarchical immune suppression by Tregs via TGFβ1-induced macrophage programming_x000D_in cancers

○ Qiao Gou, Hiroyuki Takaba, Hiroshi Takayanagi

The University of Tokyo

WS09-05-P

Systematic TME Construction and Immune Cell Subtyping in Glioblastoma

○ Shangru Jia, Tatsuhiko Tsunoda, Artem Lysenko

The University of Tokyo

WS09-06-P

A novel pro-metastatic role of interleukin-17F in a mouse model of melanoma lung metastasis

○ Masayuki Umemura¹⁾, Toshihiro Konno^{1,2)}, Kohsuke Tsuchiya³⁾, Hiroyasu Kidoya⁴⁾

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WS09-07-O/P

Expanding the Application of IgNAR Antibodies derived from Shark for Next-next-generation Cancer Antibody Therapeutics

○ Yuki Nitta^{1,2)}, Wataru Takagi³⁾, Susumu Hyodo³⁾, Masahiro Yasunaga^{1,2)}

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WS09-08-P

Increased Spp1 expression and tumorigenesis in mammary glands of IL-21 isoform transgenic mice

○ Risako Yamaguchi, Akemi Araki, Junji Yokozawa, Shinichi Saitoh, Yuji Takeda, Hironobu Asao

Department of Immunology, Faculty of Medicine, Yamagata University

WS09-09-P

Targeting SPRED2 to Unleash ERK-Driven CD8⁺ T Cell Responses and Memory Development in Breast Tumor Immunity

○ Miao Tian, Teizo Yoshimura, Chunling Li, Tong Gao, Masayoshi Fujisawa, Toshiaki Ohara, Akihiro Matsukawa
Okayama University

WS09-10-O/P

Induction of tertiary lymphoid structures via chemokine-based immunotherapy for solid tumors

○ Taro Suzuki, Keitaro Kanie, Tomoko Ishii, Shin Kaneko
Kyoto University

WS09-11-O/P

The effect of acrolein on anti-tumor effects and its relationship with ferroptosis

○ Koki Ichimaru, Koji Kitaoka, Yasuhiro Haku, Tomonori Yaguchi, Tasuku Honjo, Kenji Chamoto
Department of Immunotherapy and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University School of Medicine

WS09-12-P

Antitumor effect of Lipo-P4-aPDL1 on ES-2 transplanted humanized mouse model

○ Kosuke Tabe^{1,2}, Mariko Miyazawa¹, Yuki Hoshino¹, Shino Oshima¹, Yoshiyuki Manabe³, Hitoshi Ishimoto², Takashi Shiina¹, Yoshie Kametani¹
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WS09-13-P

Elucidation of Tumor Microenvironment (TME) Factors Hindering Antibody Drug Delivery in Pancreatic Cancer: Comparative Analysis with Colorectal Cancer and Overcoming Strategies

○ Yuki Tsuji^{1,2}, Masahiro Yasunaga^{1,2}, Hirobumi Fuchigami², Takahiro Anzai³
¹The University of Tokyo Graduate School of Advanced Life Sciences, Graduate School of New Frontier Innovation Sciences, ²Division of New Drug Development, Center for Advanced Medical Research and Development, National Cancer Center, ³Gunma National College of Technology, Department of Materials Science and Engineering

WS09-14-O/P

Modulation of the tumor microenvironment by allogeneic cell transfer enhances PD-1 blockade efficacy via inhibition of T cell exhaustion

○ Ryotaro Imagawa, Tomonori Yaguchi, Tasuku Honjo, Kenji Chamoto
Kyoto University

WS09-15-O/P

Repetitive Fasting-Refeeding Synergizes with Metformin to Promote CXCR6⁺ CD8T cell Migration to Tumors via VCAM-1 on Normalized Tumor Vasculature in the Refeeding Phase

○ Weiyang Zhao¹, Miho Tokumasu¹, Mikako Nishida², Natsumi Imano¹, Nahoko Yamashita², Heiichi Uono²
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WS09-16-P

A hybrid approach integrating deep learning and mathematical modeling of the cancer immunity cycle for optimizing immunoradiotherapy

○ Taisuke Takayanagi¹, Kana Yamasaki^{2,3}, Koichi Miyazaki¹, Futaro Ebina¹, Keiji Kobashi^{4,5}, Takayuki Hashimoto⁵, Hidefumi Aoyama^{4,5,6,7}, Hiroki Shirato⁵, Kenji Chamoto^{2,8}
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WS09-17-P

Integrative bioinformatics analysis reveals the role of CD276 in immune evasion and mutational landscape of breast cancer

○ Luan Wen, Ben Chung-Lap Chan, Ping-Chung Leung, Chun-Kwok Wong
The Chinese University of Hong Kong

WS09-18-P

Analysis of immune response in mice inoculated with 9-(E,Z)HODE-treated E.G7-OVA cells

○ Makoto Tsuiji, Akane Hirata, Ayane Okumura
Hoshi University

WS09-19-P

Impact of Exposure to Benzodiazepines on Adverse Effects and Efficacy of PD-1/PD-L1 Blockade in Patients With Non-Small Cell Lung Cancer

○ Kiyoshi Takagaki^{1,2)}, Yoshiya Ohno¹⁾, Taiichiro Otsuki^{3,4)}, Aki Kubota^{3,4,5)}, Takashi Kijima^{3,4)}, Toshiyuki Tanaka¹⁾

¹⁾Laboratory of Immunobiology, School of Pharmacy, Hyogo Medical University, ²⁾Department of Pharmacy, Hyogo Medical University Hospital, ³⁾Department of Respiratory Medicine and Hematology, School of Medicine, Hyogo Medical University, ⁴⁾Department of Thoracic Oncology, School of Medicine, Hyogo Medical University, ⁵⁾Department of Biomedical Statistics and Bioinformatics, Kyoto University Graduate School of Medicine

WS09-20-P

PD-L1 Blockade Induces Tumor-Specific Lethal Coagulopathy via IL-6–Mediated Thrombin Activation in mice

○ Surabhi Raman, Takuma Oura, Tomonori Yaguchi, Tasuku Honjo, Kenji Chamoto
Kyoto University

WS09-21-P

FAAH Inhibition Enhances Efficacy of immune Checkpoint Blockade in tumor-bearing Aged Mice

○ Chenyu Huo, Wen Li, Hirotake Tsukamoto
Kyoto University

WS09-22-P

Hyper-differentiation alters the immunogenicity of melanoma cells

○ Yuki Ando, Sara Hatazawa, Momo Mataka, Riko Kumatabara, Mio Nakajima, Rikuto Sone, Akihiro Nakamura, Mieko Tokano, Tomonaga Ichikawa, Takashi Murakami, Yutaka Horiuchi
Saitama Medical University

December 10

WS10 Thymus and lymph nodes

WS10-01-O/P

Roles of TIR1-mediated iron homeostasis in the initiation of T-lineage program

○ Yuichi Kama, Hiroyuki Hosokawa
Department of Immunology, Tokai University School of Medicine

WS10-02-O/P

CD69 regulates agonist TCR signaling

○ Yukihiro Endo, Nanako Yasujima, Tatsuya Ueno, Taiyo Sasayama, Motoko Y. Kimura
Graduate School of Medicine, Chiba University

WS10-03-O/P

Regulation of TCR activation threshold by transcription factor SATB1

○ Taku Naito, Marii Ise, Yuriko Tanaka, Shuhei Mashimo, Michitsune Arita, Taku Kuwabara, Motonari Kondo
Toho University School of Medicine

WS10-04-O/P

Unveiling kinase-transcription factor axis that couples invariant TCR signaling to iNKT cell generation

○ Eri Ishikawa^{1,2)}, Sho Yamasaki^{1,2,3,4)}

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WS10-05-O/P

Characterization of a spontaneous severe combined immunodeficient strain of mice

○ Masatsugu Oh-hora¹⁾, Daisuke Motooka²⁾, Mio Narita¹⁾, Norikazu Yabuta³⁾, Sho Yamasaki³⁾, Takehiko Yokomizo⁴⁾

¹⁾Dept. of Immunology, Faculty of Medicine, Saitama Medical University, ²⁾NGS core facility, Research Institute of Microbial Diseases, Osaka University, ³⁾Dept. of Molecular Immunology, Research Institute of Microbial Diseases/Immunology Frontier Research Center, The University of Osaka, ⁴⁾Dept. of Biochemistry, Juntendo University School of Medicine

WS10-06-O/P

Generation of human T/NK progenitor cells as a source of CAR-T/NK cell therapy

○ Karin Noma
Tokyo University of Science

WS10-07-P

Thymic regeneration depending on age at exposure in the context of radiation induced mouse thymic lymphomagenesis

○ Masaaki Sunaoshi¹⁾, Benjamin Blyth²⁾, Yi Shang¹⁾, Chizuru Tsuruoka¹⁾, Takamitsu Morioka¹⁾, Mayumi Shinagawa¹⁾, Mari Ogawa¹⁾, Yoshiya Shimada³⁾, Akira Tachibana⁴⁾, Daisuke Iizuka¹⁾, Shizuko Kakinuma^{1,3)}

¹⁾National Institutes for Quantum Science and Technology, ²⁾Peter MacCallum Cancer Centre, ³⁾Institute for Environmental Science, ⁴⁾Ibaraki University

WS10-08-P

Targeted Ablation of K14-Driven Thymic Epithelial Cells Disrupts Regeneration After Thymic Injury

○ Martin Agbove, Tetteh Doris Narki, Hidetoshi Yamazaki
Mie University

WS10-09-P

Rat Thymic Medullary Fibroblasts Exhibit a More Differentiated Phenotype Compared to Mouse Counterparts

○ Yasushi Sawanobori, Hisashi Ueta, Yusuke Kitazawa, Nobuko Tokuda
Anatomy, Dokkyo Medical University

WS10-10-O/P

Reconstruction of a lymph node-like structure by transplantation of a centrifuge-based bioengineered lymphatic tissue

○ Shu Obana, Shoko Itakura, Makiya Nishikawa, Kosuke Kusamori
Faculty of Pharmaceutical Sciences, Tokyo University of Science

WS10-11-P

The role of talin1 binding to beta2 integrin in T cell migration and activation

○ Yoshihiro Ueda, Naoyuki Kondo, Masanori Murayama, Yuji Kamioka, Tatsuo Kinashi
Kansai Medical University

WS10-12-P

Measuring and controlling immune cell adhesion by light

○ Yuji Kamioka¹⁾, Tatsuo Kinashi²⁾

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WS10-13-P

Dectin-1+ resident cDC2 immediately presents lymph-borne soluble antigens to helper T cells in the lymph node DCP

○ Madoka Ozawa, Tomoya Katakai
Niigata University Graduate School of Medical and Dental Sciences

WS10-14-P

Human artificial lymphoid tissues as a platform for studying human immune responses

○ Yuka Kobayashi, Hiroshi Kawamoto, Takeshi Watanabe
Kyoto University, Institute for Life and Medical Sciences

December 10

WS11 Cytokines and Chemokines

WS11-01-O/P

IL-17A+ Treg cells are increased with age, and enhance accumulation of senescent cells in dermis

○ Yuichiro Ogata¹⁾, Takaaki Yamada^{1,2,3)}, Yoshie Ishii^{1,2)}, Masaru Arima³⁾, Yohei Iwata³⁾, Seiji Hasegawa^{1,3,4)}, Kazumitsu Sugiura³⁾, Hirohiko Akamatsu²⁾

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WS11-02-P

Aging-related IL-18 production contributes to exacerbation of Th17-type airway inflammation

○ Masakiyo Nakahira, Etsushi Kuroda
Department of Immunology, School of Medicine, Hyogo Medical University

WS11-03-O/P

The immunological crosstalk between IL-33+ ductal cells of von Ebner's glands and ILC2s orchestrates oral barrier function

○ Satoshi Koga¹⁾, Kazuyo Moro^{1, 2, 3)}

¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Laboratory for Innate Immune Systems, IReC, The University of Osaka

WS11-04-P

Neuroprotective effects of the conditioned medium of human dental pulp stem cells against sciatic nerve crush injury in mice: recovering responses of neural cells

○ Natsuki Yamaguchi, Miki Igarashi, Aruma Watanabe, Hideaki Hasegawa, Eri Horio, Yasuhiro Katahira, Satomi Miyakawa, Fumihiro Murakami, Shota Toda, Ning Qu, Izuru Mizoguchi, Takayuki Yoshimoto
Tokyo Medical University

WS11-05-P

A neuroprotective role of progranulin in the conditioned medium of human dental pulp stem cells for the therapeutic effect against diabetic peripheral neuropathy

○ Eri Horio, Miki Igarashi, Yasuhiro Katahira, Natsuki Yamaguchi, Satomi Miyakawa, Fumihiro Murakami, Hiromitsu Anamizu, Shota Toda, Ning Qu, Izuru Mizoguchi, Takayuki Yoshimoto
Tokyo Medical University

WS11-06-P

Suppression of itch sensation by IL-27

○ Daiji Sakata¹⁾, Yusuke Nomoto²⁾, Masahiro Yamamoto³⁾, Chisa Nakashima⁴⁾, Kenji Kabashima⁴⁾, Hiroki Yoshida⁵⁾, Gyohei Egawa²⁾, Takuro Kanekura²⁾, Hiromitsu Hara¹⁾

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WS11-07-P

Signaling crosstalk between IGBP and IGF-I signaling axis regulates osteoclast differentiation

○ Takashi Izawa, Yusaku Hamada, Yuri Yoshikawa, Gohji Kozaki, Hiroshi Kamioka
Okayama University

WS11-08-P

Detection of Cytokine Storm-Responsive Cells in the Brain

○ Mone Fushimi¹⁾, Hiroshi Takayanagi¹⁾, Michio Miyajima²⁾

¹⁾Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, ²⁾Department of Osteoimmunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo

WS11-09-P

Withdrawn

WS11-10-O/P

Live FluoroSpot: Spatiotemporal Profiling of Cytokine Secretion at Single-Cell Resolution

○ Zhuohao Yang¹⁾, Mai Yamagishi²⁾, Nobutake Suzuki¹⁾, Takumi Adachi³⁾, Koji Nagaoka⁴⁾, Satoshi Yotsumoto⁵⁾, Masato Tanaka⁵⁾, Kazuyo Moro⁶⁾, Kazuhiro Kakimi⁴⁾, Takashi Kamatani⁷⁾, Etsushi Kuroda³⁾, Yoshitaka Shirasaki¹⁾

¹⁾The University of Tokyo, ²⁾Live Cell Diagnosis, Ltd., ³⁾Hyogo Medical University, ⁴⁾Kindai University, ⁵⁾Tokyo University of Pharmacy and Life Sciences, ⁶⁾The University of Osaka, ⁷⁾Institute of Science Tokyo

WS11-11-P

CCL3 and CCR5 interactions improve innate immune responses during septic peritonitis

○ Yumi Kuninaka, Yuko Ishida, Mizuho Nosaka, Stefano Palumbi, Mariko Kawaguchi, Naofumi Mukaida, Toshikazu Kondo
Wakayama Medical University

WS11-12-P

The CCL9–CCR1 axis as an intrinsic regulatory pathway suppressing neuroinflammation in EAE

○ Nozomi Sachi, Yomei Kagoshima, Supanuch Ekronarongchai, Masaaki Okamoto, Naganori Kamiyama, Takashi Kobayashi
Oita University

WS11-13-P

Pathophysiological Role of the CX3CL1-CX3CR1 Axis in Kidney Stone Formation and Dissolution

○ Hisanobu Tosuji, Yuko Ishida, Yumi Kuninaka, Yuya Iwahashi, Naofumi Mukaida, Yasuo Kohjimoto, Toshikazu Kondo
Wakayama Medical University

WS11-14-P

Enhancement of fibrinolysis by bone marrow-derived CCR5-expressing macrophages in a murine deep vein thrombosis model

○ Mizuho Nosaka, Yuko Ishida, Yumi Kuninaka, Akiko Ishigami, Hiroki Yamamoto, Akihiko Kimura, Stefano Palumbi, Naofumi Mukaida, Toshikazu Kondo

Department of Forensic Medicine, Wakayama Medical University

WS11-15-O/P

Reciprocal roles of interleukin-33 in a lipid nanoparticle-based mRNA vaccine-induced cytotoxic T cell and type 2 responses

○ Kaiwen Liu^{1,2,3}, Kouji Kobiyama^{1,2,3}, Naoko Satoh-Takayama⁴, Tomoya Hayashi^{1,2,3}, Burcu Temizoz^{1,2,3}, Hideo Negishi^{1,2,3}, Asuka Tobuse¹, Mai Onaga¹, Peter Katsikis⁶, Cevayir Coban^{2,3,5}, Ken Ishii^{1,2,3}

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WS11-16-O/P

Elucidation of the CNS Infiltration Mechanism in Acute Lymphoblastic Leukemia via IL-7R Signaling and Development of a Targeted Antibody–Drug Conjugate Therapy

○ Motochika Hamada, Masahiro Yasunaga

National Cancer Center Exploratory Oncology Research & Clinical Trial Center

WS11-17-O/P

RNF213 promotes NF-κB-mediated inflammation via IL-6 amplifier in Moyamoya disease

○ Shintaro Hojo^{1,4,7}, Mitsutaka Yasuda^{1,2}, Kaoru Murakami¹, Jing-Jing Jiang^{1,3}, Yuki Tanaka⁴, Hiroki Tanaka¹, Rie Hasebe⁵, Takeshi Yamasaki⁵, Ari Hashimoto⁶, Tatsuya Atsumi², Shigeru Hashimoto¹, Masaaki Murakami^{1,4,5,7}

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WS11-18-O/P

Neutrophil-secreted IL-23 p19 monomer attenuates type 17 immunity

○ Daiya Ohara¹, Kazuki Sakatoku¹, Hitomi Watanabe¹, Toshiaki Ohteki², Gen Kondoh¹, Keiji Hirota¹

¹Kyoto University, ²Institute of Science Tokyo

WS11-19-P

TRAF5 Facilitates IgG2c Production in Obese Mice via CD40 Signaling in B cells

○ Mari Hikosaka-Kuniishi¹, Yusuke Ozawa¹, Tomomi Wakaizumi¹, Ayaka Sato¹, Chieri Iwata¹, Tsutomu Wada², Toshiyasu Sasaoka², Masashi Morita¹, Takanori So¹

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WS11-20-P

Arf1 negatively regulates inflammatory cytokine production via the MyD88 pathway

○ Mami Sumiyoshi, Satoshi Matsuda

Kansai Medical University

WS11-21-P

The cytokine component Epstein-Barr virus-induced 3 (EBI3) is involved in splenomegaly induced by TLR7 stimulation

○ Masanori Iseki¹, Yuma Sakamoto¹, Daiki Takezaki^{1,2}, Yoshihiro Matsuda^{1,2}, Mariko Inoue³, Shin Morizane², Tomoyuki Mukai¹

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WS11-22-P

Pretreatment with alendronate augments lipid A-induced IFN-β production via upregulation of cGAS expression by mouse macrophage-like cells

○ Riyoko Tamai, Yusuke Kiyoura

Ohu University School of Dentistry

WS12 Innate inflammation and diseases

WS12-01-P

Analysis of hepatic stellate cells in MASH-prone and MASH-resistant mouse models

○ Kana Goto¹⁾, Kaichi Kasai¹⁾, Yukihiro Furusawa¹⁾, Naoko Ohtani²⁾, Yoshinori Nagai¹⁾

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WS12-02-P

Impact of dietary cholic acid on pathological changes in type 2 diabetes and MASH

○ Miyuna Kato¹⁾, Kaichi Kasai¹⁾, Yukihiro Furusawa¹⁾, Koichi Tsuneyama²⁾, Yoshinori Nagai¹⁾

¹⁾Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, ²⁾Department of Pathology and Laboratory Medicine, Tokushima University Graduate School

WS12-03-O/P

Therapeutic Modulation of GLP-1 Restores Mucosal Immunity during diet-modulated colitis

○ Leonie Brockmann^{1,3)}, Carlotta Ronda²⁾, Harris Wang³⁾

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WS12-04-O/P

Production of artificial gut microbiota for transplantation with an IgA antibody

○ Kengo Sasaki, Keishu Takahashi, Ryutaro Tamano, Genta Furuya, Naoki Morita, Peng Gao, Reiko Shinkura
The University of Tokyo

WS12-05-P

Specific microRNAs regulate inflammation during immunosenescence: potential therapeutic candidates against inflammaging

○ Yangming Sheng, Atsushi Irie, Jinyu Zhao, Hiroyuki Oshiumi

Dep Immunol, Grad Sch Med Sci, Kumamoto University

WS12-06-P

The effect of age on the bilateral character of CB2-mediated inflammatory regulation

○ Haruka Hosoki¹⁾, Toru Asahi^{1,2)}, Chihiro Nozaki³⁾

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WS12-07-O/P

Pattern Recognition Receptors in Syncytiotrophoblast: Roles in Antiviral Defense and Pregnancy Complications

○ Kenichiro Motomura^{1,2,3,4)}, Hiromichi Yamamoto^{2,5)}, Masato Tamari²⁾, Naoko Nagano²⁾, Yuka Hayashi²⁾, Hideaki Morita^{2,6)}, Hironori Takahashi⁵⁾, Seiji Wada⁴⁾, Hiromi Komiya⁷⁾, Hirohisa Saito²⁾, Kenji Matsumoto²⁾

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WS12-08-P

Immunomodulatory and anti-viral activity of herbal formula Kwan Du Bu Fei Dang on COVID-19 infection

○ Yin Tung Lai¹⁾, Chun Kwok Wong^{1,2)}

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WS12-09-O/P

Tetratricopeptide repeat and ankyrin repeat containing 1 (Trank1) regulates chemokine expression during infection and is implicated in the pathogenesis of psychiatric disorders

○ Takahisa Kouwaki, Hiroyuki Oshiumi

Kumamoto University

WS12-10-P

Analysis of CARD9 function against cariogenic bacterium infection

○ Aoba Iwanuma^{1,2)}, Kenji Toyonaga^{1,3)}, Jun-ichi Nagao^{1,3)}, Satoru Iwai¹⁾, Sari Kishikawa^{1,3)}, Kyoko Oka^{2,3)}, Yoshihiko Tanaka^{1,3)}

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WS12-11-O/P

Virus-induced CD5L/AIM reprograms innate immunity to enable concurrent viral clearance and tissue repair during acute influenza infection

○ Satoko Arai, Toru Miyazaki

The Institute for AIM Medicine

WS12-12-P

Engineered Reporter Cell Lines to Evaluate Immunogenicity of RNA Therapeutics

○ Xiaobing Li, Jasper Ho, Cedar Lin

InvivoGen

WS12-13-O/P

Investigation of innate immune responses in *Rhinolophus* bats in vivo

○ Kaoru Usui¹⁾, Ziyi Guo¹⁾, Shigeru Fujita¹⁾, Alfredo Hinay¹⁾, Yukie Kashima²⁾, Yutaka Suzuki²⁾, Jumpei Ito¹⁾, Kei Sato¹⁾

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WS12-14-P

Dual monoclonal antibody treatment synergistically attenuates TLR-4 driven inflammatory responses in LPS-stimulated Kupffer cells

○ Bristy Basak, Masanori Inui, Tatsuya Yamazaki, Susumu Tomono, Sachiko Akashi-Takamura

Aichi Medical University

WS12-15-O/P

Dissecting the complex inflammatory response in pyrin-associated autoinflammatory diseases

○ Yoshitaka Honda¹⁾, Naoya Iwata²⁾, Yoshihiko Kuchitsu³⁾, Atsushi Hijikata⁴⁾, Hirofumi Shibata²⁾, Kazushi Izawa²⁾, Tomohiko Taguchi³⁾, Hideki Ueno^{1,5)}, Takahiro Yasumi^{2,6)}

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WS12-16-O/P

HUMAN DBR1 IS A BRAINSTEM GATE-KEEPER OF IMMUNITY TO A BROAD RANGE OF VIRUSES

○ Koji Nakajima^{1,2,3)}, Yi-Hao Chan⁴⁾, Danyel Lee^{1,2,3)}, Noopur Khobreakar⁵⁾, Oliver Harschnitz⁶⁾, Lorenz Studer⁵⁾, Jean-Laurent Casanova^{1,2,3,7,8)}, Shen-Ying Zhang^{1,2,3)}

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WS12-17-P

Validation of antibody specificities targeting the leukocyte immunoglobulin-like receptor family

○ Hiromu Tanimoto¹⁾, Kouyuki Hirayasu^{1,2)}, Rikinari Hanayama^{1,3)}

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WS12-18-P

Annexin A1 regulates bone homeostasis and offers therapeutic potential for osteoporosis

○ Hend Terukawa, Alaa Terukawa, Norimasa Iwasaki

Hokkaido University

December 10

WS13 B cell maturation, plasma cell differentiation and function

WS13-01-O/P

In vitro induction of human germinal centre B-cells

○ David Priest¹⁾, Wataru Ise^{2,3)}, James Wing^{1,3,4)}

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WS13-02-P

Arf1 regulates B cell survival and germinal center formation○ Yui Kotani^{1,2)}, Mami Sumiyoshi²⁾, Madoka Ozawa¹⁾, Tomoya Katakai¹⁾, Satoshi Matsuda²⁾¹⁾Department of Immunology, Niigata University Graduate School of Medical and Dental Sciences, ²⁾Department of Cell Signaling, Kansai Medical University

WS13-03-P

T cell help promotes reentry of rare memory B cells into germinal centers and contributes to generation of anti-influenza broadly neutralizing antibodies○ Yang Xue^{1,2)}, Yuki Tai^{1,3)}, Daiki Mori³⁾, Kaori Sakai⁴⁾, Takuya Miyazaki⁴⁾, Mikito Owa⁴⁾, Kohei Kometani⁵⁾, Isao Ebina^{4,6)}, Ryusuke Omiya^{4,6)}, Kunihiro Hattori^{4,6)}, Wataru Ise³⁾, Ryo Shinnakasu⁷⁾¹⁾Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, The University of Osaka, ²⁾Graduate School of Frontier Biosciences, The University of Osaka, ³⁾Regulation of Host Defense Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, The University of Osaka, ⁴⁾Research Division, Chugai Pharmaceutical Co. Ltd, ⁵⁾Department of Life Science Frontiers, Center for iPS Cell Research and Application, Kyoto University, ⁶⁾Joint Research Chair of Innovative Drug Discovery in Immunology, WPI Immunology Frontier Research Center, The University of Osaka, ⁷⁾Institute for Research, Innovation and Collaboration Advanced Research Support Center, Ehime University

WS13-04-O/P

Somatic hypermutation generates autoreactive B cells without autoreactive T cell help

○ Wataru Okada, Daisuke Fujimori, Sawa Ishii, Wakana Takahashi, Miya Yoshino, Koji Tokoyoda

Tottori University

WS13-05-P

STAP-1 is required for pathogenesis of Systemic Lupus Erythematosus by regulating GC formation○ Shoya Kawahara¹⁾, Jun-ichi Kashiwakura²⁾, Kenji Oritani³⁾, Tadashi Matsuda¹⁾¹⁾Hokkaido University, ²⁾Hokkaido University of Science, ³⁾International University of Health and Welfare

WS13-06-P

Protein kinase D orchestrates the balance between IgG1 and IgE production○ Airi Shibata¹⁾, Kazuhiko Kawata¹⁾, Keisuke Imabayashi¹⁾, Eri Ishikawa²⁾, Tomoharu Yasuda³⁾, Sho Yamasaki²⁾, Yoshihiro Baba¹⁾¹⁾Department of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, ²⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, ³⁾Department of Immunology, Hiroshima University

WS13-07-O/P

Regulation of selective class-switching provides long term therapeutic benefits for hay fever○ Naoki Morita¹⁾, Takahiro Nagatake³⁾, Takenori Inomata⁶⁾, Takahiro Adachi²⁾, Yasuhiro Yamada⁴⁾, Manabu Sugai⁷⁾, Keiichi I. Nakayama⁸⁾, Hirotsu Kojima⁵⁾, Reiko Shinkura¹⁾¹⁾Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo, ²⁾Department of Immunology, Medical Research Institute, Tokyo Medical and Dental University, ³⁾Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, ⁴⁾Department of Molecular Pathology, Graduate School of Medicine, The University of Tokyo, ⁵⁾Drug Discovery Initiative, Graduate School of Pharmaceutical Sciences, The University of Tokyo, ⁶⁾Department of Ophthalmology, Juntendo University Graduate School of Medicine, ⁷⁾Department of Molecular Genetics, Division of Medicine, Faculty of Medical Sciences, University of Fukui, ⁸⁾Anticancer Strategies Laboratory, TMDU Advanced Research Institute, Tokyo Medical and Dental University

WS13-08-P

Humanized BCR mice represent a novel in vivo platform as an alternative to conventional humanized mice○ Rinka Ito¹⁾, Yutaro Yada¹⁾, Yasuhiro Kazuki²⁾, Yoshihiro Baba¹⁾¹⁾Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, ²⁾Chromosome Engineering Research Center, Tottori University

WS13-09-O/P

Local antigen-dependent generation of plasma cells in bone marrow○ Toshiro Hirai^{1,2,3,4)}, Yasuo Yoshioka^{1,2,3,4,5)}¹⁾Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, ²⁾Research Institute for Microbial Diseases, The University of Osaka, ³⁾Graduate School of Pharmaceutical Sciences, The University of Osaka, ⁴⁾Center for Advanced Modalities and DDS, The University of Osaka, ⁵⁾The Research Foundation for Microbial Diseases, The University of Osaka

WS13-10-O/P

Induction of Metal-Responsive Genes by LLPC-Associated Survival Cytokines in Plasma Cells○ Ari Itoh-Nakadai¹⁾, Maiko Kobayashi¹⁾, Masayuki Shirota³⁾, Ryo Funayama⁴⁾, Yasuhiro Yoshida⁵⁾, Keiko Nakayama⁴⁾, Toshiyuki Takai²⁾¹⁾Department of Hygiene and public Health, Nippon Medical School, ²⁾Department of Experimental Immunology, IDAC, Tohoku University, ³⁾Department of AI and Innovative Medicine, UCARTM, Tohoku University Graduate School of Medicine, ⁴⁾Department of Cell Proliferation, UCARTM, Tohoku University Graduate School of Medicine, ⁵⁾Department of Immunology and Parasitology, School of Medicine, University of Occupational and Environmental Health, Japan

WS13-11-P

PTEN deficiency accelerates regulatory plasma cell differentiation via sensitizing IL-5/STAT5 axis

○ Yu-Wen Su, Hsin-Hsin Chen, Ya-Fang Shih, Ming-Yu Chen, Pei-Ju Tsai, Mai Trinh Tang Nguyen
National Health Research Institutes

WS13-12-P

A trans-omics approach reveals metabolic reprogramming in antibody-producing cells induced by type I IFN and TLR9

○ Ayana Shinomiya¹⁾, Yukiko Iwasaki²⁾, Junichi Maruyama²⁾, Qiuhan Zhu²⁾, Katusyuki Yugi²⁾
¹⁾RIKEN/Keio University, ²⁾RIKEN

WS13-13-O/P

Autoreactivity, NETosis, and Fibrosis: Functional Implications of MZB1⁺ Plasma Cells in Skin Disease

○ Akitaka Hata, Takayoshi Komatsu-Fujii, Du Yaxin, Toshiaki Kogame, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

WS13-14-O/P

Differential BCR signaling and antigen presentation activity in IgG B cells contribute to positive selection into bone marrow IgG over IgM plasma cells

○ Yuki Tai^{1, 2)}, Takuya Koike^{2, 3)}, Wataru Ise¹⁾, Tomohiro Kurosaki^{2, 4)}
¹⁾Regulation of Host Defense Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, The University of Osaka, ²⁾Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, The University of Osaka, ³⁾Center for New Generation Infectious Diseases, The University of Tokyo, ⁴⁾Laboratory for Lymphocyte Differentiation, RIKEN Center for Integrative Medical Sciences (IMS)

WS13-15-P

Involvement of autoantibodies in streptozotocin-induced type 1 diabetes mouse model

○ Kenta Ueda, Mari Tenno, Daisuke Kitamura
Research Institute for Biomedical Sciences, Tokyo University of Science

December 10

WS14 Tolerance and Immune suppression

WS14-01-O/P

Antigen-Specific Tolerance by mRNA for Therapeutic Applications

○ Shota Imai, Tomoyoshi Yamano, Rikinari Hanayama
Department of Immunology, Graduate School of Medical Sciences, Kanazawa University

WS14-02-O/P

Cholesterol sulfate prevents maternal–fetal conflict by locally modulating immune reactivity

○ Kazufumi Kunimura¹⁾, Kenichiro Hirotsu²⁾, Yuki Sugiura³⁾, Yoshihiro Izumi⁴⁾, Kenji Morino¹⁾, Takeshi Iwasaki⁵⁾, Kanjiro Miyata⁶⁾, Takeshi Mori⁷⁾, Yasuyuki Ohkawa⁸⁾, Yoshinao Oda⁵⁾, Kiyoko Kato²⁾, Yoshinori Fukui¹⁾
¹⁾Division of Immunogenetics, Department of Immunobiology and Neuroscience, Medical Institute of Bioregulation, Kyushu University, ²⁾Department of Obstetrics and Gynecology, Graduate School of Medical Sciences, Kyushu University, ³⁾Multomics Platform, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, ⁴⁾Division of Metabolomics, Research Center for Transomics Medicine, Medical Institute of Bioregulation, Kyushu University, ⁵⁾Department of Anatomic Pathology, Graduate School of Medical Sciences, Kyushu University, ⁶⁾Department of Materials Engineering, Graduate School of Engineering, The University of Tokyo, ⁷⁾Department of Applied Chemistry, Faculty of Engineering, Kyushu University, ⁸⁾Division of Transcriptomics, Medical Institute of Bioregulation, Kyushu University

WS14-03-O/P

The regulatory role of neonatal thymic microenvironment in the onset of autoimmunity

○ Shigefumi Matsuzawa^{1, 2)}, Aya Ushio^{1, 3)}, Ruka Nagao¹⁾, Kunihiro Otsuka¹⁾, Takaaki Tsunematsu¹⁾, Naozumi Ishimaru^{1, 3)}
¹⁾Department of Oral Pathology, Graduate school of Biomedical Sciences, Tokushima University, ²⁾Section of Oral and Maxillofacial Surgery, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University, ³⁾Department of Oral Pathology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo

WS14-04-O/P

Aryl hydrocarbon receptor agonists-loaded nanoparticles induce antigen-specific immune tolerance via regulatory B cells

○ Takanatsu Hosokawa¹⁾, Takuro Yamada¹⁾, Yoshihiro Baba²⁾, Takeshi Mori¹⁾
¹⁾Graduate School of Systems Life Sciences, Kyushu University, ²⁾Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University

WS14-05-O/P

PD-1 suppresses inflammatory responses elicited by de novo genome mutagenesis in mice

○ Yoshiya Kakimoto¹⁾, Ilamangai Nagaretnam¹⁾, Fuka Takeuchi²⁾, Toshiaki Shigeoka¹⁾, Akihiko Ito²⁾, Yasumasa Ishida¹⁾
¹⁾Nara Institute of Science and Technology, ²⁾Kindai University Faculty of Medicine

WS14-06-O/P

Orally induced tolerance to skin immunization is mediated by mesenteric lymph node-derived Th cells via an integrin $\alpha 4\beta 7$ -dependent mechanism

○ Arisa Akagi¹⁾, Rintaro Shibuya²⁾, Sho Hanakawa³⁾, Akihiko Kitoh¹⁾, Kenji Kabashima^{1,3)}

¹⁾Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York City, NY, United States, ³⁾Skin Research Labs, Agency for Science, Technology and Research (A*STAR), Republic of Singapore

WS14-07-O/P

The role of antigen specificity in tissue Treg phenotypes and functions

○ Moeri Tsubaru, Yoshimichi Hoshiya, Ryuichi Murakami, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS14-08-P

Differences in molecular recognition of agonistic antibodies to the immune checkpoint receptor BTLA

○ Shogo Takekawa¹⁾, Daigo Sato¹⁾, Miki Iwamori¹⁾, Shiori Ito¹⁾, Tian Cong¹⁾, Shunsuke Kita¹⁾, Chris Paluch²⁾, Simon Davis²⁾, Katsumi Maenaka^{1,3,4,5,6)}, Kimiko Kuroki¹⁾

¹⁾Facul. Pharm. Sci., Hokkaido Univ., ²⁾Univ. of Oxford, ³⁾Facul. Pharm. Sci., Science University of Tokyo, Yamaguchi College, ⁴⁾Facul. Pharm. Sci., Kyushu Univ., ⁵⁾Inter. Inst. Zoonosis Control, Hokkaido Univ., ⁶⁾Inst. Vaccine Res. and Devel.

WS14-09-P

Molecular characteristics of a novel HLA-G2 form for therapeutic applications

○ Ryota Yamamoto, Hiroshi Watanabe, Chisato Yamada, Haruki Matsubara, Kimiko Kuroki, Katsumi Maenaka
Hokkaido Univ.

WS14-10-P

Responses of CD8⁺ T cells in a mouse model of autoimmune induction

○ Aya Fukui-Miyazaki, Akihiro Ishizu, Utano Tomaru

Hokkaido University

WS14-11-P

High-Plex Spatial Analysis of T Cell Exhaustion Using Imaging Mass Cytometry for Immuno-Oncology Studies

○ Chewei Hu¹⁾, Thomas D. Pfister²⁾, Jyh Yun Chwee²⁾, Qanber Raza²⁾, Nikesh Parsotam²⁾, David Howell³⁾, Liang Lim²⁾, Christina Loh²⁾

¹⁾Standard BioTools K.K., ²⁾Standard BioTools Canada Inc., ³⁾Standard BioTools Inc.

WS14-12-P

The Role of Tyrosine Phosphatase CD45 in Age-induced Immune Suppression

○ Sara Delghandi, Tomonori Yaguchi, Ken Matsumoto, Toshihiko Ogura, Kenji Chamoto

Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

WS14-13-P

Benign and harmful autoimmunity via manipulating the binding stability of self-peptides that control the kinetics of tissue antigen-specific effector regulatory T cells through modulating TCR signaling

○ Youwei Lin^{1,2)}, Takashi Yamamura²⁾

¹⁾Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, ²⁾Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry

WS14-14-P

Mechanistic analysis of donor-derived iPSC-induced spontaneous immune tolerance

○ Tomoki Kamatani, Ken-ichiro Seino

Division of Immunobiology, Institute for Genetic Medicine, Hokkaido University

December 11

WS15 Tissue-specific T cell biology: Organ-dependent Functions and Diseases

WS15-01-O/P

Pathological analysis of tissue resident memory T Cells in inflammatory bowel disease

○ Naohiko Kinoshita, Mari Murakami, Kiyoshi Takeda

The University of Osaka

WS15-02-O/P

Hepatic leukemia factor directs tissue residency of proinflammatory CD4+ T cells

○ Masahiro Kiuchi¹⁾, Masahiro Nemoto¹⁾, Hiroyuki Yagyu¹⁾, Chiaki Iwamura^{1,2)}, Hikaru Sugimoto³⁾, Yuki Masuo⁴⁾, Kanae Ohishi¹⁾, Eiryo Kawakami³⁾, Hideki Ueno⁴⁾, Damon J Tumes⁵⁾, Toshinori Nakayama^{1,6)}, Kiyoshi Hirahara^{1,2,6)}

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⁴⁾Department of Immunology, Graduate School of Medicine, Kyoto University, ⁵⁾Centre for Cancer Biology, SA Pathology and the University of South Australia, ⁶⁾AMED-CREST, AMED

WS15-03-O/P

CD69 regulates the tissue dynamics of epigenetically imprinted memory CD4+ T cells

○ Chiaki Iwamura^{1,2)}, Rui Hirasawa¹⁾, Kiyoshi Hirahara^{1,2)}

¹⁾Department of Immunology, Chiba University, ²⁾Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University

WS15-04-O/P

Withdrawn

WS15-05-O/P

Identification of a novel subset of lung tissue-resident memory T cells that supports long-lasting local immunity

○ Kosuke Kitahata¹⁾, Diego Diez²⁾, Shiki Takamura¹⁾

¹⁾RIKEN Center for Integrative Medical Sciences, ²⁾The University of Osaka

WS15-06-O/P

Interplay of IL-10 producing CD4+ T cells and macrophages regulates tissue regeneration following influenza virus infection

○ Hui Li, Hiroyuki Kondo, Koji Yasutomo

Tokushima University

WS15-07-O/P

Mechanisms Mediating Synovial Resident Memory T Cell Persistence in Rheumatoid Arthritis

○ Yusuke Miyashita^{1,2)}, Yang Yang¹⁾, Madison Mangin¹⁾, Maryrose Hahn¹⁾, Kimitoshi Nakamura²⁾, Margaret Chang¹⁾

¹⁾Boston Children's Hospital, ²⁾Kumamoto University Hospital

WS15-08-O/P

Roles of bone marrow memory CD4 T cells in vivo

○ Sano Nagano, Akiho Idehara, Koji Tokoyoda

Division of Immunology, Faculty of Medicine, Tottori University, Yonago, Japan

WS15-09-O/P

Genetic Deletion of CCR4 Accelerates Early-Stage Atherosclerosis in Mice

○ Aga Krisnanda¹⁾, Kazuhiko Matsuo³⁾, Takashi Nakayama³⁾, Naoto Sasaki^{1,2)}

¹⁾Laboratory of Medical Pharmaceutics, Kobe Pharmaceutical University, ²⁾Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine, ³⁾Division of Chemotherapy, Faculty of Pharmacy, Kindai University

WS15-10-O/P

Human precursor T follicular regulatory cells are primed for differentiation into mature Tfr and disrupted during severe infections

○ James Wing^{1,3,6)}, Janyerkye Tulyeu¹⁾, Jonas Søndergaard¹⁾, David Priest^{1,6)}, Takeshi Ebihara²⁾, Hisatake Matsumoto²⁾, Mara Llamas-Covarrubias⁶⁾, Akimichi Morita⁵⁾, Sayuri Yamazaki⁴⁾, Shimon Sakaguchi⁷⁾

¹⁾Human Single Cell Immunology Team, CiDER, The University of Osaka, ²⁾Department of Traumatology and Acute Critical Medicine, Graduate School of Medicine The University of Osaka, ³⁾Center for Advanced Modalities and DDS (CAMaD), The University of Osaka, ⁴⁾Department of Immunology, Nagoya City University Graduate School of Medical Sciences, ⁵⁾Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, ⁶⁾Laboratory of Human Single Cell Immunology, IFRc, The University of Osaka, ⁷⁾Laboratory of Experimental Immunology, IFRc, The University of Osaka

WS15-11-P

Lymphopenia-induced CD4+ T-cell proliferation exacerbates skin inflammation triggered by commensal skin fungi

○ Mami I. Mamiya^{1,2)}, Yuji Nishimura²⁾, Gyohei Egawa¹⁾, Akihiko Kitoh¹⁾, Hiroshi Kawamoto²⁾, Kenji Kabashima¹⁾

¹⁾Department of Dermatology, Kyoto University Graduate School of Medicine, ²⁾Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University

WS15-12-O/P

Increased $\gamma\delta$ T cells in the brain produced IL-17 and exacerbate the pathogenesis of sepsis-induced anxiety in mice

○ Masafumi Saito¹⁾, Naoki Moriyama²⁾, Yuko Ono³⁾, Joji Kotani³⁾, Manabu Kinoshita¹⁾

¹⁾Department of Immunology and Microbiology, National Defense Medical College, ²⁾Hyogo Prefectural Awaji Medical Center, ³⁾Division of Disaster and Emergency Medicine, Department of Surgery Related, Kobe University Graduate School of Medicine

WS15-13-O/P

Circulating, innate Th1-like memory-phenotype CD4+ T cells rapidly accumulate in ischemic organs to exacerbate tissue injury via neutrophil orchestration

○ Kosuke Sato^{1,2}, Akihisa Kawajiri¹, Jing Li¹, Ziyang Yang¹, Ryoji Mitsuwaka¹, Shunichi Tayama¹, Kenshiro Matsuda³, Chigusa Nakahashi-Oda³, Akira Shibuya³, Motoshi Wada², Naoto Ishii¹, Takeshi Kawabe^{1,4}

¹Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, ²Department of Pediatric Surgery, Tohoku University Graduate School of Medicine, ³Department of Immunology, Institute of Medicine and R&D Center for the Innovative Drug Discovery, University of Tsukuba, ⁴Division for the Establishment of Frontier Sciences, Tohoku University Organization for Advanced Studies

WS15-14-O/P

Characterization of CD20-expressing CD4+ T cells in autoimmune neuroinflammation

○ Masanobu Tanemoto^{1,2}, Ippei Ikegami¹, Taiki Sugaya^{1,3}, Ken-Ichi Takano³, Shin Hisahara², Shingo Ichimiya¹

¹Department of Human Immunology, Research Institute for Immunology, Sapporo Medical University School of Medicine, ²Department of Neurology, Sapporo Medical University School of Medicine, ³Department of Otolaryngology-Head and Neck Surgery, Sapporo Medical University School of Medicine

WS15-15-O/P

Spermidine Impairs Mitochondrial Function in Senescent-Like CD8+ T Cells via FAO-Driven ROS

○ Jun Wang, Yasuharu Haku, Aprilia Maharani, Tomonori Yaguchi, Kenji Chamoto

Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

WS15-16-O/P

Novel Integrated Workflow for Simultaneous Analysis of Antigen-Specific T-Cells and B-Cells

○ Nayeema Nushrat^{1,2}, David Priest¹, Takashi Toya³, Ayumi Taguchi^{4,5}, James Badger Wing^{1,2,4}

¹Human Single Cell Immunology team, Center for Infectious Diseases Education and Research (CiDER), The University of Osaka, ²Center for Advanced Modalities and DDS (CAMaD), The University of Osaka, ³Hematology Division, Tokyo Metropolitan Komagome Hospital, ⁴Laboratory of Human Single Cell Immunology, WPI IFReC, The University of Osaka, ⁵Department of Obstetrics and Gynecology, Graduate School of Medicine, The University of Tokyo

WS15-17-O/P

Clonally Expanded CD8+ T Cells Actively Shape Alzheimer's Disease Pathology Through Dynamic Functional Transitions

○ Masaki Ohyagi^{1,2}, Minako Ito³, Mana Iizuka-Koga¹, Setsuko Mise-Omata¹, Akihiko Yoshimura¹

¹Tokyo University of Science, ²Institute of Science Tokyo, ³Kyushu University

WS15-18-O/P

Lipolysis-microlipophagy cascade regulated by adipose triglyceride lipase drives pathogenic adaptive type 2 immunity

○ Atsushi Sasaki^{1,2,3}, Hiroyuki Yagyu^{1,4}, Masahiro Kiuchi¹, Chiaki Iwamura¹, Takahiro Arano¹, Kanae Ohishi¹, Shigenori Baba¹, Kiyoshi Hirahara^{1,3}

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WS15-19-O/P

Flexible and Comprehensive Phenotyping of Tumor and Peripheral Blood Mononuclear Cells in Endometrial Carcinoma

○ Naoto Fujioka¹, Anita Kant², Deeqa Mahamed², Geneve Awong², Gary Impey²

¹Standard BioTools K.K., ²Standard BioTools Inc.

WS15-20-O/P

Analysis of T Cells in Amyotrophic Lateral Sclerosis

○ Yoshihiro Harada, Mio Kawazoe, Ako Matsui, Minako Ito

Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University

WS15-21-O/P

Sleep Deprivation Alters Brain Immune Landscape with Adaptive Immune Cell Infiltration and Neuronal Gene Signatures

○ Haruka Takeda

University of Tsukuba

WS15-22-O/P

Identification and characterization of neonatal liver-resident T cells

○ Yuta Iijima^{1,2}, Ichita Hasegawa¹, Shunka Kano¹, Yukihiro Endo¹, Ryo Nasu¹, Hiromichi Hamada², Motoko Kimura¹

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WS16 Tumor Immunity - Antigens and receptors

WS16-01-P

Targeting CTA-01 as a Pan-Cancer and Pan-HLA Antigen for Immunotherapy

○ Jason Wong Keen Sheng^{1,2}, Justin Low Jun Ting¹, Thamizhanban Manoharan¹, Dawn Sijin Nin^{4,5}, Ziliang Ma^{1,3}, Lih-Wen Deng^{4,5,6}, Wei Wu^{1,2,3}

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WS16-02-O/P

Pushing the limits of neoantigen discovery in low tumour mutational burden cancers by synergising with targeted protein degradation and noncanonical translation

○ Wei Wu^{1,2}, Ilisia Ow^{1,2}, Ruojing Lu^{1,2}, Justin Jun Ting Low¹, Wei Jin Amanda Crystal Lee¹

¹Singapore Immunology Network (SIgN), A*STAR Singapore, ²National University of Singapore

WS16-03-P

Phenotypic characterization of neoantigen-specific cytotoxic CD4+ T cells

○ Serina Tokita¹, Minami Fusagawa², Kenji Murata², Toshihiko Torigoe², Yoshihiko Hirohashi², Takayuki Kanaseki¹

¹Niigata University, ²Sapporo Medical University

WS16-04-P

Dynamics of CD8+ T cells revealed by single-cell analysis in a patient with metastatic renal cell carcinoma who achieved a complete response to ICI therapy

○ Yudai Funakoshi, Soki Kashima, Ryuta Sobu, Yuya Sekine, Hiromi Sato, Mizuki Kobayashi, Ryohei Yamamoto, Mitsuru Saito, Shintaro Narita, Tomonori Habuchi

Akita University Graduate School of Medicine, Department of Urology

WS16-05-O/P

Crucial Role of IFN-γ-Induced MHC Class II on Tumor Cells in Antitumor Immunity Elicited by an mRNA Cancer Vaccine

○ Mahiro Shibata^{1,2}, Hui Jin¹, Hisashi Arase^{1,2}

¹Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka, ²Laboratory of Immunochemistry, Immunology Frontier Research Center, The University of Osaka

WS16-06-O/P

HANG-Vax potentially maximize the efficacy of TCR-T therapy, leading to the cure of immunotherapy-resistant solid tumors and long-term prevention of recurrence

○ Fumiyasu Momose¹, Makiko Yamane¹, Junko Nakamura¹, Linan Wang¹, Keiki Nagaharu², Kohei Yabuuchi³, Shogo Aso³, Takeru Kurosawa^{3,4}, Toru Katsumata³, Tsuyoshi Shimoboji³, Takashi Nakai^{3,4}, Yoshihiro Miyahara¹

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WS16-07-O/P

Peptide immunotherapy targeting FAP augments anti-tumor responses

○ Keiko Uda¹, Toshihiro Komatsu¹, Kaoru Furihata², Yuki Tanaka⁴, Kohsuke Onoue⁴, Kazuhide Onoguchi⁴, Yoshiko Yamashita⁴, Kanae Kubota³, Naoki Sakaguchi⁵

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WS16-08-O/P

HBI-8000, a histone deacetylase inhibitor, reprograms CD8+ T cell differentiation and enhances PD-1 blockade efficacy

○ Mohamed A. Soltan¹, Tomonori Yaguchi^{1,2}, Tasuku Honjo¹, Kenji Chamoto^{1,2}

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WS16-09-P

NF-Υ cooperates with NLRC5 to transactivate MHC class I genes via dual promoter binding motifs

○ Zufang Wu¹, Yusuke Kasuga^{1,3}, Tsutomu Tanaka^{1,3}, Koichi Kobayashi^{1,2,3}

¹Department of Immunology, Hokkaido University Graduate School of Medicine, ²Department of Microbial Pathogenesis and Immunology, Texas A&M University, ³Hokkaido University Institute for Vaccine Research and Development

WS16-10-O/P

Synergic induction of MHC-I expression by cooperation of IRF1 and NLRC5

○ Tsutomu Tanaka^{1,2)}, Torsten Meissner^{3,4)}, Saptha Vijayan⁵⁾, Kyoung-Hee Lee^{3,4)}, Yuen-Joyce Liu³⁾, Isaac Downs⁵⁾, Jason Yeung⁵⁾, Koichi Kobayashi^{1,2,5)}

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WS16-11-O/P

IFN- γ stimulation upregulates HLA-F cell surface expression that regulates tumor progression in colon cancers

○ Noriko Oujii-Sageshima, Atsushi Hara, Kaito Yasuie, Hinata Wade, Ryutaro Furukawa, Masahiro Kitabatake, Toshihiro Ito

Department of Immunology, Nara Medical University

WS16-12-P

Targeting The Aberrant Epigenetic Status in Cancer to Improve the MHC-I-Dependent Immune Response

○ Alaa Ahmad¹⁾, Tsutomu Tanaka^{1,2)}, An Ning¹⁾, Xin Sun¹⁾, Ryota Ouda¹⁾, Koichi S. Kobayashi^{1,2,3)}

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WS16-13-P

Spatial Immunogenomics of Tertiary Lymphoid Structures: Integrating Cell-State Ecology and Ligand–Receptor Networks

○ Ange Yan, Tatsuhiko Tsunoda, Artem Lysenko

The University of Tokyo

WS16-14-P

Single-cell multiomics analysis to investigate the diverse mutation patterns of tumor–immune interactions

○ Tadashi Imafuku¹⁾, Kyohei Matsumoto¹⁾, Shigeyuki Shichino²⁾, Manabu Kawai¹⁾, Yoichiro Nakatani³⁾, Shinichi Hashimoto¹⁾

¹⁾Wakayama Medical University, ²⁾Tokyo University of Science, ³⁾The University of Osaka

WS16-15-P

Maintenance of Tumor-Specific CTLs in Artificial Lymphoid Tissue

○ Ryota Kaitani, Yuka Kobayashi, Takeshi Watanabe, Hiroshi Kawamoto

Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University

WS16-16-P

Molecular imaging reveals BiTE mediated T cell activation mimics antigen recognition of TCR

○ Arata Takeuchi, Shun Moriya, Hitoshi Nishijima, Hiroaki Machiyama, Shuto Sebata, Ei Wakamatsu, Tadashi Yokosuka

Tokyo Medical University

WS16-17-P

Functional analysis of novel anti-HLA-G monoclonal antibodies

○ Yuhi Kuriki¹⁾, Yoji Mori¹⁾, Sakie Shimokakimoto¹⁾, Kazuma Hikichi¹⁾, Naruki Akaiwa¹⁾, Atsushi Furukawa^{1,2)}, Naoyoshi Maeda^{1,3)}, Kimiko Kuroki¹⁾, Katsumi Maenaka^{1,4,5,6)}

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WS16-18-P

A Novel Approach to Excipient Selection in Biopharmaceutical Formulations

○ Toshio Ariyasu^{1,2,3)}, Masahiro Otao^{1,2)}, Shoji Kakuta^{1,3)}, Shuichi Hirose^{1,2)}

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WS17 Allergy (I): Orchestrating the Cellular Symphony

WS17-01-O/P

Enhanced STAT6 signaling promotes age-dependent spontaneous mixed granulocytic lung inflammation

○ Naoko Nagano¹⁾, Masato Tamari¹⁾, Hiromichi Yamamoto¹⁾, Hisataka Nakazaki¹⁾, Satoshi Fujita¹⁾, Yuka Hayashi¹⁾, Kenichiro Motomura^{1,2,3)}, Shuji Takada⁴⁾, Susumu Nakae⁵⁾, Hirohisa Saito¹⁾, Kenji Matsumoto¹⁾, Hideaki Morita^{1,6)}

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WS17-02-O/P

FoxO1 regulates peripheral basophil abundance and allergic inflammation

○ Kensuke Miyake, Junya Ito, Xintong Chen, Hajime Karasuyama

Institute of Integrated Research, Institute of Science Tokyo

WS17-03-O/P

Differences in Steroid Responsiveness across Mouse Strains in Type 2 Allergic Airway Inflammation

○ Hyunsoo Kim, Yong Woo Jung

College of Pharmacy, Korea University

WS17-04-O/P

IL-33-mediated innate responses trigger sneezing independent of IgE in allergic rhinitis

○ Huiyang Li¹⁾, Yasutaka Motomura^{1,4)}, Kazuyo Moro^{1,2,3)}

¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Laboratory for Innate Immune Systems, IFReC, The University of Osaka, ⁴⁾Division of Immunology and Allergy, Research Institute for Biomedical Science, Tokyo University of Science

WS17-05-O/P

Involvement of the Unfolded Protein Response in the Mast Cell-dependent allergic responses in vivo and in vitro

○ Hiroto Kouda, Kazuki Nagata, Chiharu Nishiyama

Department of Biological Science and Technology, Tokyo University of Science

WS17-06-O/P

CCR4-NOT complex-mediated mRNA decay preserves ILC2 identity and function during allergic inflammation

○ Megumi Tatematsu^{1,2)}, Akene Fuchimukai^{1,2)}, Shunsuke Takasuga^{1,2)}, Takashi Ebihara^{1,2,3)}

¹⁾Department of Medical Biology, Akita University Graduate School of Medicine, ²⁾Key Research Laboratory at Akita University, ³⁾Comprehensive Center for Infectious Disease Control, Akita University

WS17-07-O/P

Spontaneously produced IgE attenuates passive cutaneous anaphylaxis

○ Akihiko Kitoh¹⁾, Rintaro Shibuya²⁾, Sho Hanakawa³⁾, Kenji Kabashima^{1,3)}

¹⁾Department of Dermatology, Kyoto University Graduate School of Medicine, ²⁾Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, ³⁾Skin Research Labs, Agency for Science, Technology and Research (A*STAR)

WS17-08-O/P

Mast cell-monocyte interaction regulates macrophage differentiation and allergic inflammation

○ Yuka Nagata, Shiori Murakami, Atsushi Furukawa, Ryo Suzuki

Division of Pharmaceutical Sciences Institute of Medical, Pharmaceutical, and Health Science Kanazawa University

WS17-09-P

Suppression of adipocyte differentiation by mast cells through extracellular trap-like factors

○ Risa Akita, Shunki Ehara, Yusuke Nakanishi, Kyoko Takahashi

College of Bioresource Sciences, Nihon University

WS17-10-P

Stress-Induced Neutrophilic Inflammation Aggravates Allergen-Driven Asthma

○ Kakeru Takenobu, Tomoaki Takao, Takeru Sakaue, Minako Ito

Kyushu University

WS17-11-P

Investigation of IgE-independent mechanisms in the development of allergic conjunctivitis

○ Miharuru Kawashima, Miyoko Matsushima, Shino Ando, Yuzuki Matsuda, Miki Oguri, Hiyori Takano, Tsutomu Kawabe

Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Tokai National Higher Education and Research System

WS17-12-P

Basic analysis of symptom-relevant IgE epitopes in milk protein

○ Hiroyi Takano, Miyoko Matsushima, Shino Ando, Yuzuki Matsuda, Miki Oguri, Mihar Kawashima, Tsutomu Kawabe
Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Tokai National Higher Education and Research System

WS17-13-P

Regulatory Role of Endogenous Zinc in the Onset and Progression of Food Allergy Pathogenesis

○ Taiga Yunoue¹⁾, Rin Mizumura²⁾, Rinya Asako²⁾, Teruhisa Kawakami²⁾, Junya Ohtake^{3, 4)}, Sachi Tanaka^{5, 6)}, Hidemitsu Kitamura^{1, 2, 3, 4)}

¹⁾Course of Biomedical Engineering, Graduate School of Life Sciences, Toyo University, ²⁾Department Biomedical Engineering, Faculty of Science and Engineering, Toyo University, ³⁾Research Facility Center, Asaka, Toyo University, ⁴⁾Research Center, Biomedical Engineering, Toyo University, ⁵⁾Graduate School of Science and Technology, Shinshu University, ⁶⁾Graduate School of Medicine, Science and Technology, Shinshu University

WS17-14-P

Roles of ILC2 in lung tissue repair after injury mediated by protease allergens

○ Mirei Matsumoto, Susumu Nakae, Masashi Ikutani
Hiroshima University

WS17-15-P

Highly purified mesenchymal stem cells suppress food allergy by inhibiting mast cell degranulation

○ Sora Osakada¹⁾, Rintaro Yoshikawa¹⁾, Takashi Suyama²⁾, Hiromi Miyauchi²⁾, Yumi Matsuzaki^{1, 2)}
¹⁾Shimane University, Faculty of Medicine, ²⁾PuREC Co., Ltd.

WS17-16-P

Ambient particulate matter induces lysosomal membrane permeabilization and cytotoxic effects

○ Tomohiro Ishihara, Atsushi Furukawa, Yuka Nagata, Ryo Suzuki
Faculty of Pharmaceutical Science, Institute of Medical, Pharmaceutical and Health Science, Kanazawa University

WS17-17-P

Neutrophil-expressed Ly6G modulates allergic responses via mast cell-neutrophil interaction

○ Ami Igarashi, Yuka Nagata, Atsushi Furukawa, Ryo Suzuki
Faculty of Pharmaceutical Sciences, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University

WS17-18-P

Application of MHC-density assay for the detection of HLA/drug interaction

○ Hiroko Miyadera
University of Tsukuba

December 11

WS18 Organ-specific Immune Diseases

WS18-01-P

CARS2-dependent supersulfide metabolism exacerbates mouse model of multiple sclerosis by enhancing IFN- γ + Th17 accumulation via promoting IL23p19 expression in dendritic cells

○ Ryoji Mitsuoka¹⁾, Yuya Kitamura¹⁾, Kyoga Hiraide¹⁾, Hibiki Suzuki¹⁾, Shunichi Tayama¹⁾, Jing Li¹⁾, Ziyang Yang¹⁾, Kosuke Sato¹⁾, Yuko Okuyama¹⁾, Takeshi Kawabe¹⁾, Takaaki Akaike²⁾, Naoto Ishii¹⁾

¹⁾Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, ²⁾Department of Redox Molecular Medicine, Tohoku University Graduate School of Medicine

WS18-02-P

Autoimmune neuroinflammation is controlled by the influence of the microbiome on pathogenic Th cell responses in a model of secondary progressive multiple sclerosis

○ Ben Raveney^{1, 2)}, Daiki Takewaki¹⁾, Wataru Suda²⁾, Takashi Yamamura¹⁾

¹⁾National Institute of Neuroscience, NCNP, Kodaira, Tokyo, ²⁾Laboratory for Symbiotic Microbiome Sciences, RIKEN IMS, Yokohama, Kanagawa

WS18-03-P

STAP-1-derived peptide suppresses TCR-mediated T cell activation and ameliorates autoimmune diseases by inhibiting STAP-1/LCK binding

○ Takumi Sato, Yuto Sasaki, Shoya Kawahara, Tadashi Matsuda
Hokkaido University

WS18-04-O/P

Helios-Dependent Chromatin Remodeling Drives IFN- α -Responsive Plasma Cell Differentiation in NMO-SD Naïve B Cells

○ Shuhei Sano, Daisuke Noto, Yasunobu Hoshino, Yuji Tomizawa, Kazumasa Yokoyama, Nobutaka Hattori, Sachiko Miyake
Juntendo University

WS18-05-P

A series of CD21lo B cell subsets and peripheral helper T cells are recruited to the central nervous system in acute neuromyelitis optica

○ Ryusei Nishigori^{1,2}, Mio Hamatani³, Hiroyuki Yoshitomi^{2,3}, Kimitoshi Kimura¹, Masaki Takata^{1,2}, Shinji Ashida⁴, Chihiro Fujii⁵, Hirofumi Ochi⁶, Ryosuke Takahashi^{1,7}, Takayuki Kondo⁵, Hideki Ueno^{2,3,8}

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WS18-06-O/P

CXCR5 regulates disease susceptibility and activity in primary biliary cholangitis (PBC)

○ Yuki Hitomi^{1,2}, Yoshihiro Aiba³, Kazuyoshi Ishigaki^{4,5}, Minoru Nakamura^{3,6,7}

¹Institute of Biomedical Sciences, Fukushima Medical University, ²National Institute of Global Health and Medicine, Japan Institute for Health Security, ³Clinical Research Center, NHO Nagasaki Medical Center, ⁴RIKEN Center for Integrative Medical Sciences, ⁵Keio University School of Medicine, ⁶Medical Institute of Bioregulation, Kyushu University, ⁷Nagasaki University Graduate School of Biomedical Sciences

WS18-07-P

Analysis of diseases caused by high expression of the endosomal regulatory molecule RIN3 in CD11c-positive cells

○ Yoshiko Saitoh (Mori)¹, Daisuke Aki¹, Yukihiro Tanaka², Jumpei Taguchi³, Manabu Ozawa³, Shin-Ichiroh Saitoh¹

¹Department of Intractable Disorders, Institute of Advanced Medicine, Wakayama Medical University, ²Department of Pathology, Research Hospital, The Institute of Medical Science, The University of Tokyo, ³Laboratory of Reproductive Systems Biology, Center for Experimental Medicine and Systems Biology, The University of Tokyo

WS18-08-O/P

Mechanisms of Th1-skewed intestinal inflammation under adaptive immunodeficiency in the mice carrying W447C mutation of Lig4 encoding DNA ligase IV

○ Hideki Kosako¹, Yusuke Yamashita¹, Misato Tane¹, Tadashi Okamura¹, Takashi Kato^{2,3}, Izumi Sasaki², Sadahiro Iwabuchi⁴, Hiroaki Hemmi^{2,5}, Shinichi Hashimoto⁴, Takashi Sonoki¹, Shinobu Tamura^{1,6}, Tsuneyasu Kaisho^{2,7}

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WS18-09-O/P

A commensal-derived lipid mediator promotes tuft cell driven mucosal healing in colitis

○ Shunya Hatai^{1,2}, Yasutaka Motomura^{1,3}, Koji Hosomi⁴, Sakaguchi Taiki⁵, Ryu Okumura⁵, Daisuke Motoooka⁷, Eiichi Morii⁸, Shota Nakamura⁷, Takayuki Ogino⁶, Kiyoshi Takeda⁵, Jun Kunisawa⁴, Kazuyo Moro^{1,2,9}

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WS18-10-P

Immunomodulatory effect of Shakuyaku extract and its use for preventing inflammatory bowel disease

○ Rahajeng Fitria Wahyuniputri, So-ichiro Sasaki, Yoshihiro Hayakawa

Institute of Natural Medicine, University of Toyama

WS18-11-P

The role of IL-13 in intestinal barrier disruption associated with regulatory T cell dysfunction

○ Rina Sato, Yui Azami, Haruka Morimoto, Sami Uehara, Naoya Kase, Yohsuke Harada

Tokyo University of Science

WS18-12-P

Role of lymph-derived extracellular vesicles in the immune homeostasis of colon and pathogenesis of Ulcerative Colitis

○ Hisashi Ueta, Hidefumi Kojima, Keiichi Tominaga, Yusuke Kitazawa, Yasushi Sawanobori, Mina Shirabe, Atsushi Irisawa, Nobuko Tokuda

Dokkyo Medical University

WS18-13-P

Anti-Integrin α V β 6 Autoantibodies in Ulcerative Colitis Patients Cross-React with *Veillonella dispar*○ Issei Wada^{1,2)}, Naoki Morita¹⁾, Genta Furuya¹⁾, Kengo Sasaki¹⁾, Keishu Takahashi¹⁾, Masahiro Shiokawa³⁾, Reiko Shinkura¹⁾¹⁾Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo, ²⁾Graduate School of Pharmaceutical Sciences, The University of Tokyo, ³⁾Department of Gastroenterology and Hepatology, Kyoto University Graduate School of Medicine

WS18-14-O/P

CD300b is a pathogenic receptor triggering autoinflammatory dermatitis and bone destruction by recognizing self-phospholipids○ Asako Kubota^{1,2)}, Xuhao Huang²⁾, Takae Yabuki³⁾, Kumi Izawa⁴⁾, Masatomo Takahashi⁵⁾, Yoshihiro Izumi⁵⁾, Masamichi Nagae^{1,2)}, Kazuo Okamoto⁶⁾, Jiro Kitaura^{4,7)}, Sho Yamasaki^{1,2,3,8)}¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, the University of Osaka, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center, the University of Osaka, ³⁾Center for Advanced Modalities and DDS (CAMA-D), the University of Osaka, ⁴⁾Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ⁵⁾Division of Metabolomics/Mass Spectrometry Center, Medical Research Center for High Depth Omics, Medical Institute of Bioregulation, Kyushu University, ⁶⁾Division of Immune Environment Dynamics, Cancer Research Institute, Kanazawa University, ⁷⁾Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine, ⁸⁾Center for Infectious Disease Education and Research (CiDER), the University of Osaka

WS18-15-P

Emollient interventions in the development of atopic dermatitis in infancy

○ Ulil Albab Habibah

Islamic University Indonesia

WS18-16-O/P

Tertiary Lymphoid Tissue Development and Stage Progression in Chronic Kidney Disease○ Jinghao Chen¹⁾, Takahisa Yoshikawa³⁾, Naoya Toriu^{1,3)}, Steffen Plunder¹⁾, Motoko Yanagita^{1,3)}, Sungrim Seirin-Lee^{1,2)}¹⁾Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University Institute for Advanced Study, Kyoto University, ²⁾Department of Mathematical Medicine, Graduate School of Medicine, Kyoto University, ³⁾Department of Nephrology, Graduate School of Medicine, Kyoto University

WS18-17-O/P

Proteasome dysfunction in adipocytes causes lipodystrophy with autoinflammation

○ Thanh Nam Nguyen, Junko Morimoto, Koji Yasutomo

Tokushima University

WS18-18-P

The role of Baff in the regulation of lipid metabolism in liver

○ Soichiro Kato, Ryuji Owada, Tomoko Asatsuma-Okumura, Yoshiko Iwai

Nippon Medical School

WS18-19-P

Thyroid stimulating activity of IgM-type TSH receptor antibodies produced by gene transfer○ Keiko Nagata¹⁾, Shusei Hamamichi²⁾, Yoshinori Ichihara¹⁾, Tatsuya Sawano¹⁾, Kanako Kazuki²⁾, Takashi Moriwaki²⁾, Junichiro Miake¹⁾, Kazuhiko Matsuzawa¹⁾, Yasuhiro Kazuki²⁾, Takeshi Imamura¹⁾¹⁾Division of Pharmacology, Faculty of Medicine, Tottori University, ²⁾Chromosome Engineering Research Center, Tottori University

WS18-20-P

Epigenetic regulation of TSHR expression by orbital fibroblasts from Graves' ophthalmopathy patients○ Sita Virakul¹⁾, Rajit Chompoowong³⁾, Pimchanok Phankeaw³⁾, Apinya Suwannavong³⁾, Sopita Visamol³⁾, Sukonlaphat Pitikeattikul³⁾, Preamjit Saonanon²⁾, Vannakorn Pruksakorn²⁾, Panida Potita²⁾, Tanapat Palaga¹⁾¹⁾Department of Microbiology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand, ²⁾Department of Ophthalmology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ³⁾Medical Microbiology, Interdisciplinary Program, Graduate School, Chulalongkorn University, Bangkok, Thailand

WS18-21-P

Inhibitory Anti-Toll-Like Receptor 7 Monoclonal Antibody Attenuates Type 1 Diabetes in NOD Mice○ Ryutaro Fukui^{1,2)}, Atsuo Kanno²⁾, Yuji Motoi²⁾, Kensuke Miyake^{1,2)}¹⁾Chiba University, ²⁾The Institute of Medical Science, The University of Tokyo

WS18-22-P

Moesin regulates homeostasis of alveolar epithelial cells and macrophages

○ Hiroki Satooka, Takako Hirata

Shiga University of Medical Science

WS18-23-P

Elucidation of platelet function in an animal model of pulmonary arterial hypertension

○ Koki Okada, Susumu Nakae, Masashi Ikutani

Hiroshima University

WS18-24-P

Baricitinib ameliorates glucocorticoid-resistant acute lung injury and modulates cytotoxic T cell and cytokine responses in a humanized mouse model

○ Shinya Tamechika, Shinji Maeda
Nagoya City University School Medical Sciences, Nagoya City, Japan

WS18-25-P

Elucidating the immune mechanisms underlying biliary atresia after Kasai operation

○ Shunsuke Uno^{1,2}, Yuki Masuo¹, Toshiaki Bando¹, Hiroataka Sato¹, Hajime Morita¹, Lynn Zreka¹, Mouna Khan¹, Shuhe Ma¹, Hiroyuki Yoshitomi¹, Takashi Ito³, Hironori Haga², Hideki Ueno¹

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WS18-26-P

Role of ILC2 in the pathophysiology of autism spectrum disorder

○ Tatsuya Yokota, Natsumi Awata, Nesta Amagiri, Koyomi Shiraishi, Ako Matsui, Minako Ito
Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

December 11

WS19 Innate immune response by phagocytes

WS19-01-O/P

Distinct properties of lymphoid-derived conventional dendritic cells

○ Masashi Kanayama¹, Nobuyuki Onai², Toshiaki Ohteki¹

¹Department of Biodefense Research, Medical Research Laboratory, Institute of Science Tokyo, ²Department of Immunology, Kanazawa Medical University

WS19-02-P

Marco is a critical immunosuppressive scavenger receptor for limiting liver inflammation and fibrosis in cholestasis

○ Ryo Sugimura¹, Yu Miyamoto^{1,2}, Masaru Ishii^{1,2}

¹Department of Immunology and Cell Biology, Graduate school of Medicine, The University of Osaka, ²Department of Immunology and Cell Biology, Immunology Frontier Research Center, The University of Osaka

WS19-03-O/P

Siglec-14 recognizes carbon nanomaterials and triggers inflammatory responses

○ Shin-Ichiro Yamaguchi, Masafumi Nakayama
Ritsumeikan University

WS19-04-P

Screening of NLRP3 inflammasome inhibitors using THP-1 cells harboring the NLRP3 gene mutation

○ Miho Ito¹, Hiroe Honda², Kaichi Kasai¹, Yoshinori Nagai¹

¹Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, ²Toyama Prefectural Institute for Pharmaceutical Research

WS19-05-P

Cholic acid promotes the accumulation of CD11c-positive macrophages and contributes to the development of liver fibrosis

○ Taeko Aoyama¹, Kaichi Kasai¹, Yukihiro Furusawa¹, Koichi Tsuneyama², Yoshinori Nagai¹

¹Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, ²Department of Pathology and Laboratory Medicine, Tokushima University Graduate School

WS19-06-P

Chronic inflammation disarms inflammasome-stimulating particulate adjuvants

○ Qi Su¹, Fabian Fischer¹, Sören Reinke², Joannah Fergusson¹, Anita Milicic², Jelena Bezbradica¹

¹Kennedy Institute of Rheumatology, ²The Jenner Institute

WS19-07-O/P

Identification and functional analysis of inflammation-regulated circular RNAs controlling cytokine expression in macrophages

○ Shuya Hiroki, Daisuke Ori, Norisuke Kano, Taro Kawai

Laboratory of Molecular Immunobiology, Graduate School of Science and Technology, Nara Institute of Science and Technology (NAIST), Nara, Japan

WS19-08-P

Coix polysaccharides enhanced cytokine production via TLR2 in macrophages

○ Susumu Tomono¹⁾, Hidehiro Ando²⁾, Masaaki Yoshida²⁾, Sachiko Akashi-Takamura¹⁾

¹⁾Department of Microbiology and Immunology, School of Medicine, Aichi Medical University, ²⁾Kotaro Pharmaceutical Co., Ltd

WS19-09-O/P

Transcriptomic analysis of osteal macrophages unveils molecular signatures of inflammation in experimental colitis-induced osteoporosis

○ Alaa Terukawa, Ryota Suzuki, Hend Terukawa, Norimasa Iwasaki

Hokkaido University

WS19-10-P

Molecular Recognition of HIV Capsid by Host Nuclear Protein NONO Inducing Dendritic Cell Activation

○ Yoji Mori¹⁾, Nanami Fujitani¹⁾, Manel Nicolas²⁾, Kimiko Kuroki¹⁾, Katsumi Maenaka^{1,3,4,5)}

¹⁾Facul. Pharm. Sci., Hokkaido Univ., ²⁾Institut Curie, ³⁾Inter. Inst. Zoonosis Control, Hokkaido Univ., ⁴⁾Inst. Vaccine Res. & Devel., Hokkaido Univ., ⁵⁾Facul. Pharm. Sci., Kyushu Univ.

WS19-11-P

GPR35 mediates monocyte recruitment and their inflammatory responses upon Listeria infection

○ Yo Okamura¹⁾, Katsuhiko Nakanishi¹⁾, Wakana Ohashi¹⁾, Kiyoshi Takeda²⁾, Eiji Umemoto¹⁾

¹⁾Laboratory of Microbiology and Immunology, School of Pharmaceutical Sciences, University of Shizuoka, ²⁾Department of Microbiology and Immunology, Graduate School of Medicine, The University of Osaka

WS19-12-O/P

Extracellular lipid metabolism driven by sPLA2-III controls the fate of macrophages in pulmonary fibrosis

○ Sho Egawa¹⁾, Yoshitaka Taketomi¹⁾, Makoto Murakami^{1,2)}

¹⁾The University of Tokyo, ²⁾AMED-CREST

WS19-13-P

The effect of neutrophil extracellular traps on the construction of the metastatic niche in lung metastases of breast cancer

○ Taiko Kawakami, Yusuke Nakanishi, Kyoko Takahashi

College of Bioresource Sciences, Nihon University

WS19-14-P

Neutrophil-mediated barrier breakdown: linking oral infection to brain inflammation and cognitive decline

○ Hiroyuki Tada¹⁾, Wei Wei¹⁾, Haruna Yokoi¹⁾, Tongxin Liu¹⁾, Li-Ting Song¹⁾, Kanan Bando¹⁾, Tadasu Sato²⁾

¹⁾Tohoku University Graduate School of Dentistry, ²⁾Hokkaido University Faculty of Dental Medicine

WS19-15-O/P

Neutrophils turn the key to sex difference of lifespans when hyper-vitamin D in circulation

○ Mayumi Mori, Chiaki Abe, Yuki Kanesaka, Yo-ichi Nabeshima

Kyoto University

WS19-16-P

LPS Preconditioning Enhances Phagocytosis of Liver Macrophages via MyD88-Independent Activation of Rho Family Small GTPases

○ Takeshi Ono¹⁾, Yoko Yamaguchi¹⁾, Kearney M Bradley^{1,2)}, Manabu Kinoshita¹⁾, Kei Mikita¹⁾

¹⁾National Defense Medical College, ²⁾United States Army Japan Engineer and Scientist Exchange Program

WS19-17-P

Lipopolysaccharide preconditioning ameliorates septic shock survival by activating Kupffer cells and liver monocyte-derived macrophages in mice

○ Hiroyuki Nakashima, Bradley M. Kearney, Kazuma Mori, Ryohei Suematsu, Hohei Yamada, Masafumi Saito, Masahiro Nakashima, Manabu Kinoshita

National Defense Medical College, Department of Microbiology and Immunology

WS19-18-P

Dynamics of MAPK and NF-κB p65 Signaling in Macrophages during LPS Tolerance at a Single-Cell Level

○ Tuntikorn Laosuk¹⁾, Patipark Kueanjinda²⁾, Hiroshi Kimura³⁾, Tanapat Palaga^{4,5)}

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WS19-19-O/P

Lysosomal DNA stress triggers TLR9-mediated emergency myelopoiesis and Liver fibrosis○ Ryota Sato¹⁾, Takuma Shibata²⁾, Kiyoshi Yamaguchi³⁾, Yoichi Furukawa³⁾, Kenta Nakano⁴⁾, Tadashi Okamura⁴⁾, Ryutaro Fukui¹⁾, Yuji Motoi¹⁾, Kensuke Miyake¹⁾¹⁾Miyake Lab, Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University, ²⁾Division of Aging and Regeneration, Department of Cancer Biology, The Institute of Medical Science, The University of Tokyo, ³⁾Division of Clinical Genome Research, Advanced Clinical Research Center, The Institute of Medical Science, The University of Tokyo, ⁴⁾Department of Laboratory Animal Medicine, Japan Institute for Health Security

WS19-20-O/P

TLR7 Stress Response Disrupts Immune Privilege and Triggers Submandibular Sialadenitis○ Takuma Shibata¹⁾, Yuji Motoi²⁾, Ryota Sato²⁾, Emi Nishimura¹⁾, Kensuke Miyake²⁾¹⁾Division of Aging and Regeneration, The Institute of Medical Science, The University of Tokyo, ²⁾Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University

WS19-21-P

Infosomes: Inflammatory extracellular vesicles derived from NLRP3-activated macrophages○ Semin Lee¹⁾, Hyuk-kwon Kwon^{1, 2, 3)}¹⁾Division of Applied Life Science, Gyeongsang National University, Jinju, 52828, Republic of Korea, ²⁾Division of Life Science, Gyeongsang National University, Jinju, 52828, Republic of Korea, ³⁾Division of Bio & Medical Bigdata Department (BK4 Program), Gyeongsang National University, Jinju, 52828, Republic of Korea

WS19-22-P

Targeting maternal–fetal immune activation: Unfractionated heparin prevents inflammation-driven pregnancy loss

○ Yasuyuki Negishi, Hajime Ino, Yumi Horii, Tomoko Ichikawa, Asako Watanabe, Yuki Kaito, Shunji Suzuki, Rimpei Morita

Nippon Medical School

December 11

WS20 Viral infections and Immunity

WS20-01-P

Dectin-2 plays a critical role in the host innate immune responses triggered by influenza virus glycans, including its interaction with human Dectin-2○ Hideki Yamamoto¹⁾, Natsuo Yamamoto^{2, 3)}, Tsuyoshi Suzuki²⁾, Suguru Omiya³⁾, Hidekazu Nishimura³⁾, Sho Yamasaki⁴⁾, Yoichiro Iwakura⁵⁾, Chikako Tomiyama¹⁾¹⁾Department of Medical Technology, Graduate School of Health Sciences, Niigata University, ²⁾Department of Emergency and Critical Care Medicine, Fukushima Medical University, ³⁾Virus Research Center, Sendai Medical Center, National Hospital Organization, ⁴⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, ⁵⁾Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science

WS20-02-P

Respiratory syncytial virus–induced Gas6/Axl axis drives hyporesponsive macrophages to promote pneumococcal proliferation in the nasopharynx○ Saki Ishikawa¹⁾, Nanami Okada²⁾, Yuzu Fukui²⁾, Rumi Ueha^{3, 4)}, Toshihiro Ito²⁾, Shigeki Nakamura¹⁾, Takehiko Shibata¹⁾¹⁾Department of Microbiology, Tokyo Medical University, Tokyo, Japan, ²⁾Department of Immunology, Nara Medical University, Nara, Japan, ³⁾Swallowing Center, The University of Tokyo Hospital, Tokyo, Japan, ⁴⁾Department of Otolaryngology and Head and Neck Surgery, Faculty of Medicine, the University of Tokyo, Tokyo, Japan

WS20-03-P

PD-L1+ neutrophils promote resolution of excessive inflammation in ARDS○ Atsushi Hara, Masahiro Kitabatake, Noriko Oujii-Sageshima, Ryutaro Furukawa, Kaito Yasuike, Toshihiro Ito
Department of Immunology, Nara Medical University

WS20-04-P

S100A8/S100A9 complex is critical for expression of type I interferon-related proteins in neutrophils○ Yumi Tohyama¹⁾, Kenichi Kouyama¹⁾, Hiroyuki Tabata¹⁾, Kaoru Tohyama²⁾¹⁾Himeji Dokkyo University, ²⁾Kawasaki University of Medical Welfare

WS20-05-P

Regnase-1 haploinsufficiency in mice altered the character of lung neutrophils and limited pneumonia during SARS-CoV-2 infection○ Kotaro Tanaka¹⁾, Keiko Yasuda^{1, 2)}, Junichi Aoki¹⁾, Osamu Takeuchi¹⁾¹⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Kyoto, ²⁾Department of Immunology, Nagoya City University Graduate School of Medical Sciences

WS20-06-P

Innate Inflammatory Responses in Murine Bone Marrow-Derived Dendritic Cells upon Non-Infectious Exposure to Human H3N2 Influenza Virus

○ Natsuo Yamamoto¹⁾, Hideki Yamamoto²⁾, Tsuyoshi Suzuki³⁾, Suguru Omiya¹⁾, Hidekazu Nishimura¹⁾

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WS20-07-O/P

Recognition and inhibition of CTL escape mutant HIV-1 by KIR2DL2+ NK cells

○ Nozomi Kuse^{1,2)}, Kimiko Kuroki³⁾, Nanami Tomioka³⁾, Yu Zhang²⁾, Shunsuke Kita³⁾, Takayuki Chikata²⁾, Katsumi Maenaka^{3,4,5,6,7)}, Masafumi Takiguchi²⁾

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WS20-08-P

Evaluation of CD8+ and CD4+ T cell response against various types of SARS-CoV-2 in patients with hematological malignancies

○ Satoru Yamasaki, Shogo Ueda, Yukiko Ohashi, Kanako Shimizu, Shin-ichiro Fujii
RIKEN

WS20-09-P

Mechanisms of escape mutant selection by HLA-C*12:02-restricted HIV-1-specific T cells

○ Takayuki Chikata^{1,2)}, Kimiko Kuroki³⁾, Shunsuke Kita³⁾, Nanami Tomioka³⁾, Anna E Kliszczak⁴⁾, Wayne Paes⁴⁾, Nozomi Kuse^{2,5)}, Tomohiro Akahoshi²⁾, Hiroyuki Gatanaga¹⁾, Persephone Borrow⁴⁾, Katsumi Maenaka^{3,6,7,8,9)}, Masafumi Takiguchi²⁾

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WS20-10-O/P

Molecular basis of potent antiviral HLA-C-restricted CD8+ T cell response to an immunodominant SARS-CoV-2 nucleocapsid epitope

○ Chihiro Motozono¹⁾, Mako Toyoda¹⁾, Hiroshi Hamana²⁾, Hiroyuki Kishi²⁾, Takamasa Ueno¹⁾

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WS20-11-O/P

Altered SARS-CoV-2-specific CD8+ T cell response profiles in people with HIV after natural infection

○ Ai Kawana-Tachikawa^{1,2,3)}, Kaori Nakayama-Hosoya¹⁾, Alitzel Anzurez¹⁾, Michiko Koga^{4,5)}, Hiroshi Yotsuyanagi^{6,7)}, Yukihiro Yoshimura⁸⁾, Natsuo Tachikawa⁹⁾, Hiroyuki Yamamoto^{1,2)}

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WS20-12-P

Anti-Human TMPRSS2 mAbs Inhibit SARS-CoV-2 Infection by Targeting Unique Non-Catalytic Epitopes

○ Michishige Harada³⁾, Takehisa Matsumoto³⁾, Kosuke Miyauchi³⁾, Masashi Matsuda³⁾, Mizuki Yamamoto²⁾, Akiko Idei⁶⁾, Kazuo Takayama⁵⁾, Manabu Nakayama⁴⁾, Yasushi Itoh¹⁾, Haruhiko Koseki³⁾, Mikako Shirouzu³⁾, Takashi Saito³⁾

¹⁾Dept. Pathol., Shiga Univ. Med. Sci., ²⁾IMS, Univ. of Tokyo, ³⁾RIKEN Center for Integrative Medical Sciences (IMS), ⁴⁾Kazusa DNA Research Institute, ⁵⁾CiRA, Kyoto Univ., ⁶⁾RIKEN Center for Sustainable Resource Sciences (CSRS)

WS20-13-O/P

Anti-idiotypic antibodies targeting SARS-CoV-2 neutralizing antibodies encoded with IGHV3-53 germlines

○ Yimei Wang¹⁾, Saya Moriyama¹⁾, Yu Adachi¹⁾, Akira Ainal²⁾, Kenta Nakano³⁾, Tadashi Okamura³⁾, Tadaki Suzuki²⁾, Hiroshi Ito⁴⁾, Yoshimasa Takahashi¹⁾

¹⁾Research Center for Vaccine Development, National Institute of Infectious Diseases, Japan Institute for Health Security, ²⁾Department of Infectious Disease Pathology, National Institute of Infectious Diseases, Japan Institute for Health Security, ³⁾Department of Laboratory Animal Medicine, National Institute of Global Health and Medicine, Japan Institute for Health Security, ⁴⁾Drug Discovery Research, Chiome Bioscience Inc.

WS20-14-P

Reactivation of cross-reactive, high-avidity T cells correlates with sustained humoral immunity post SARS-CoV-2 mRNA vaccination

○ Celine Chua^{1,2}, Dongyun Lu^{1,2}, Xinxin Xue^{1,2}, Naila Shinwari^{1,2}, Isao Ito³, Takao Hashiguchi⁴, Hideki Ueno^{1,2}

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WS20-15-P

Relationship between the genetic variability of HIV-2 Nef protein and CD3 intracellular motif binding ability

○ Haruka Azuma¹, Ryota Koseki¹, Kengo Hirao¹, Imai Ozawa¹, Masato Sumi², Takashi Tadokoro³, Sophie Andrews⁴, Sarah Rowland-Jones⁴, Kimiko Kuroki¹, Katsumi Maenaka¹

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WS20-16-P

Cellular senescence-driven Gas6/Axl axis causes severe viral infection in aged mice

○ Yuki Akimoto, Jyotaro Kinoshita, Yukie Kure, Yusuke Mogi, Kazuma Togo, Shigeki Nakamura, Takehiko Shibata
Tokyo Medical University

WS20-17-P

Molecular Mechanism of Immune Evasion of SARS-CoV-2 Targeting Host MHC Class I Expression

○ Patrick Kao^{1,2}, Baohui Zhu¹, Tsutomu Tanaka^{1,2}, Koichi Kobayashi^{1,2}

¹Department of Immunology, Hokkaido University, Graduate School of Medicine, ²Institute for Vaccine Research and Development (IVReD), Hokkaido University Graduate School of Medicine

WS20-18-P

The FOXO1 inhibitor AS1842856 attenuates lung inflammation in SARS-CoV-2 infection by affecting both macrophages and airway epithelial cells

○ Ryutaro Furukawa¹, Noriko Ouchi-Sageshima¹, Masahiro Kitabatake¹, Atsushi Hara¹, Shigeyuki Shichino², Satoshi Ueha², Kouji Matsushima², Toshihiro Ito¹

¹Nara Medical University, ²Tokyo University of Science

WS20-19-P

Analysis of HBV-specific CD4+ T cells in the human liver perfusate

○ Joey Matsuyama¹, Daichi Akuzawa¹, Hajime Morita¹, Toshiaki Bando¹, Shunsuke Uno¹, Shuhe Ma^{1,2}, Lynn Zreka¹, Mouna Khan¹, Yuki Masuo¹, Hirotaka Sato¹, Ryo Nishida¹, Hideki Ueno^{1,2}

¹Department of Immunology, Graduate School of Medicine, Kyoto University, ²Immunology Group, Institute for the Advanced Study of Human Biology (ASHBi)

WS20-20-P

Antigen-Specific High-Avidity CD4+ T Cells as Key Mediators of Protective Immunity Following mRNA Vaccination

○ Xinxin Xue^{1,2,3}, Naila Shinwari^{1,3}, Dongyun Lu^{1,2,3}, Celine Chua^{1,3}, Isao Ito⁴, Takao Hashiguchi⁵, Hideki Ueno^{1,2,3}

¹Department of Immunology, Kyoto University, ²Institute for the Advanced Study of Human Biology, ³Kyoto University Immunomonitoring Center, ⁴Department of Respiratory Medicine, Kyoto University, ⁵Institute for Life and Medical Sciences, Kyoto University

WS20-21-P

Dengue virus E protein probes for analysis of ADE antibodies in serum

○ Kosuke Miyauchi
RIKEN IMS

WS20-22-O/P

17,18-epoxyeicosatetraenoic acid ameliorates mRNA-LNP-induced local inflammation by inhibiting neutrophil infiltration

○ Keigo Iemitsu^{1,2}, Ken Yoshii², Takahiro Nagatake^{2,3}, Jun Kunisawa^{1,2,4,5,6,7,8,9}

¹Graduate School of Medicine, The University of Osaka, Osaka, Japan, ²Laboratory of Vaccine Materials and Laboratory of Gut Environmental System, Microbial Research Center for Health and Medicine, National Institutes of Biomedical Innovation, Health, and Nutrition (NIBN), Osaka, Japan, ³Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, Kawasaki, Kanagawa, Japan, ⁴Graduate School of Pharmaceutical Sciences, The University of Osaka, Osaka, Japan, ⁵Graduate School of Science, The University of Osaka, Osaka, Japan, ⁶International Research and Development Center for Mucosal Vaccines, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ⁷Graduate School of Medicine, Kobe University, Kobe, Japan, ⁸Research Organization for Nano and Life Innovation, Waseda University, Tokyo, Japan, ⁹Graduate School of Dentistry, The University of Osaka, Osaka, Japan

WS20-23-P

Long-term anti-viral CD8+T cell response by SARS-CoV2 antigen-expressing artificial adjuvant vector cells

○ Shogo Ueda, Satoru Yamasaki, Kosuke Miyauchi, Kanako Shimizu, Shin-ichiro Fujii
RIKEN, IMS

WS20-24-O/P

Therapeutic efficacy of an adjuvant-containing live-attenuated AIDS vaccine in pathogenic SHIV-infected cynomolgus macaques

○ Emiko Urano¹⁾, Tomotaka Okamura¹⁾, Yasuhiro Yasutomi^{1,2,3,4,5)}

¹⁾National Institutes of Biomedical Innovation, Health and Nutrition, ²⁾Institute for Vaccine Research and Development, Hokkaido University,

³⁾School of Integrative and Global Majors, University of Tsukuba, ⁴⁾Mie University Graduate School of Medicine, ⁵⁾Graduate School of Pharmaceutical Science, The University of Osaka

WS20-25-P

Development of DNA vaccine against Zika virus

○ Shih-Jen Liu^{1,2,3)}, Min-Syuan Huang^{1,4)}, Hung-Chun Liao¹⁾

¹⁾National Health Research Institutes, ²⁾China Medical University, ³⁾Kaohsiung Medical University, ⁴⁾National Tsing Hua University

WS20-26-P

Effects of glycosylation of influenza vaccines on the induction of antibody production

○ Kayoko Sato¹⁾, Hiroto Kawashima²⁾, Hitoshi Takahashi³⁾

¹⁾Department of Respiratory Viruses, National Institute of Infectious Diseases, Japan Institute for Health and Security, ²⁾Laboratory of Microbiology and Immunology, Graduate School of Pharmaceutical Sciences, Chiba University, ³⁾Influenza Research Center, National Institute of Infectious Diseases, Japan Institute for Health Security

WS20-27-P

Long-term therapeutic efficacy of live-attenuated AIDS virus expressing an adjuvant molecule in pathogenic SHIV-infected cynomolgus macaques

○ Tomotaka Okamura^{1,2)}, Yasuhiro Yasutomi²⁾

¹⁾National Institute of Infectious Diseases, ²⁾National Institutes of Biomedical Innovation, Health and Nutrition

WS20-28-P

Differential responses of memory T cells and memory B cells in following COVID-19 mRNA vaccination

○ Kohei Kometani¹⁾, Takaaki Yorimitsu^{1,2)}, Norihide Jo^{1,3)}, Yoko Hamazaki^{1,4,5)}

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WS20-29-O/P

Characterization of Virus-Host Immune Response and Screening of Viral Infection Using Animal RNA-Seq Data

○ Luca Nishimura¹⁾, Hiroaki Unno¹⁾, Junna Kawasaki^{2,3)}, Jumpei Ito¹⁾, Kei Sato¹⁾

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WS20-30-P

The ability of MEX3B to bind to RNA is key to its strong suppression of HIV-1 viral replication

○ Keiko Yasuda^{1,2)}, Junichi Aoki²⁾, Kotaro Tanaka²⁾, Osamu Takeuchi²⁾

¹⁾Department of Immunology, Nagoya City University Graduate School of Medical Sciences, ²⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS20-31-P

Elucidating the relationship between RSV and Haemophilus influenzae coinfection in severe lower respiratory tract infections

○ Eigo Kawahara^{1,2)}, Kohei Morimoto³⁾, Takafumi Sekiguchi³⁾, Mika Morita^{2,3)}, Yoshitomo Morinaga^{1,2)}

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December 11

WS21 Gastrointestinal Barrier and Immune Regulation

WS21-01-P

Intestinal dysbiosis promotes aluminium ammonium sulphate-induced pyroptosis and eosinophilic inflammation: protective role of heparin

○ Ayako Wakabayashi¹⁾, Atsuko Owaki¹⁾, Ken Iwatsuki²⁾, Etsuko Toda³⁾, Yasuhiro Nishiyama⁴⁾, Shoji Matsune⁵⁾, Yasuyuki Negishi¹⁾, Rimpei Morita¹⁾

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WS21-02-P	<p>Protective effects of irisin in a model of inflammatory cytokine-induced intestinal organoid epithelial damage</p> <p>○ Arong Gaowa, Motomu Shimaoka Mie University Graduate School of Medicine</p>
WS21-03-O/P	<p>Oral TRPV1 stimulation lowers the activation threshold for antigen-specific T cell responses via the CGRP-CD301b⁺ dendritic cell axis</p> <p>○ Mayuko Hashimoto, Yutaka Kusumoto, Michio Tomura Osaka-Ohtani University</p>
WS21-04-O/P	<p>Fam3b regulates gut homeostasis by promoting epithelial fucosylation via Fut2 localization in the Golgi apparatus</p> <p>○ Yuki Ito^{1,2)}, Ryu Okumura^{1,3)}, Kiyoshi Takeda^{1,3)} ¹The University of Osaka, ²Kobe University, ³WPI Immunology Frontier Research Center</p>
WS21-05-O/P	<p>Role of B4galnt2-mediated glycosylation in the mucus barrier and gut homeostasis</p> <p>○ Airi Ishibashi, Ryu Okumura, Kiyoshi Takeda The University of Osaka</p>
WS21-06-P	<p>Induction of Intestinal Epithelial α1,2-Fucosylation by Candida albicans is Strain Dependent</p> <p>○ Daichi Mori Chiba University</p>
WS21-07-P	<p>E-NPP7 maintains epithelial homeostasis by regulating mitochondrial morphology and function in the intestine</p> <p>○ Hiroyuki Itoi¹⁾, Akio Hayashi²⁾, Kiyoshi Takeda¹⁾, Hisako Kayama³⁾ ¹Laboratory of Immune Regulation, Department of Microbiology and Immunology, Graduate School of Medicine, The University of Osaka, ²The Center for Infectious Disease Education and Research (CiDER), The University of Osaka, ³Institute for Advanced Co-Creation Studies, The University of Osaka</p>
WS21-08-P	<p>Enhanced ketogenesis drives morphogenic profile in neonatal intestinal epithelium</p> <p>○ Kyoko Matsuki¹⁾, Taiki Sakaguchi²⁾, Kiyoshi Takeda²⁾ ¹Hyogo Medical University, ²The University of Osaka</p>
WS21-09-O/P	<p>Cross-species reactive IgA's physicochemical pattern recognition selectively inhibits the folate cycle of pathogenic bacteria</p> <p>○ Genta Furuya, Keishu Takahashi, Ryutaro Tamano, Kengo Sasaki, Naoki Morita, Peng Gao, Reiko Shinkura Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo</p>
WS21-10-P	<p>IgA-deficiency breaks immunological and neurological homeostasis</p> <p>○ Takahiro Adachi Institute of Science Tokyo</p>
WS21-11-O/P	<p>Dietary antigens contribute to intestinal homeostasis by enhancing ILC3 function</p> <p>○ Ayana Mori^{1,2)}, Mitsuki Ito^{2,3)}, Tomoko Kageyama²⁾, Naoko Tachibana⁴⁾, Tamotsu Kato⁴⁾, Ayumi Ito⁴⁾, Shiho Nagata^{1,4)}, Hiroshi Ohno^{4,5)}, Naoko Satoh-Takayama^{1,2)} ¹Immunobiology Laboratory, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Japan, ²Precision Immune Regulation RIKEN ECL Research Unit, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ³Graduate School of Pharmaceutical Sciences, Tokyo University of Science, Katsushika, Tokyo, Japan, ⁴Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁵Laboratory for Immune Regulation, Graduate School of Medicine, Chiba University, Chiba, Japan</p>
WS21-12-O/P	<p>Polyreactive IgA induced by Limosilactobacillus reuteri and Muribaculum intestinale enhances gut mucosal barrier</p> <p>○ Hikari Maruta¹⁾, Kisara Hattori-Muroi¹⁾, Daisuke Takahashi¹⁾, Reiko Shinkura²⁾, Tsukasa Matsuda³⁾, Koji Hase^{1,3,4,5)} ¹Division of Biochemistry, Faculty of Pharmacy, Keio University, ²Institute for Quantitative Biosciences, Laboratory of Immunology and Infection Control, The University of Tokyo, ³Institute of Fermentation Sciences (IFeS), Faculty of Food and Agricultural Sciences, Fukushima University, ⁴Human Biology-Microbiome-Quantum Research Center (WPI-Bio2Q), Keio University, ⁵International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo (IMSUT)</p>

WS21-13-P

Acetate-mediated modulation of colonic ILC2s activation by *Collinsella aerofaciens*○ Mitsuki Ito^{1,2)}, Tomoko Kageyama¹⁾, Ayana Mori^{1,3)}, Naoko Tachibana⁴⁾, Ayumi Ito⁴⁾, Hiroshi Ohno⁴⁾, Naoko Satoh-Takayama^{1,3)}¹⁾Precision Immune Regulation RIKEN ECL Research Unit, Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ²⁾Graduate School of Pharmaceutical Sciences, Tokyo University of Science, Noda, Chiba, Japan, ³⁾Immunobiology Laboratory, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Kanagawa, Japan, ⁴⁾Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan

WS21-14-P

ILC1-mediated protective mechanism of Kampo medicine, Rikkunshito, in the upper gastrointestinal tract○ Ruka Anzai^{1,2)}, Yunzi Yan¹⁾, Tomoko Kageyama¹⁾, Tamotsu Kato¹⁾, Mitsue Nishiyama³⁾, Naoko Satoh-Takayama^{1,2)}¹⁾Precision Immune Regulation RIKEN ECL Research Unit, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ²⁾Immunobiology Laboratory, Graduate School of Medical Life Sciences, Yokohama City University, Yokohama, Kanagawa, Japan, ³⁾Tsumura Advanced Technology Research Laboratories, Research and Development Division, Tsumura & Co., Inashiki, Japan

WS21-15-O/P

Spatial and functional characterization of ulcer-associated IL-33+ fibroblasts in ulcerative colitis○ Yuki Fukushima¹⁾, Satoshi Koga^{1,3)}, Kazuyo Moro^{1,2,3)}¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Laboratory for Innate Immune Systems, IFRc, The University of Osaka

WS21-16-P

The protective roles of Group 2 innate lymphoid cells in acute intestinal inflammation○ Lili Tajima¹⁾, Emi Irie^{1,2)}, Ichiro Mizushima¹⁾, Ka Kan¹⁾, Yuta Kaieda¹⁾, Junya Tsunoda^{1,3)}, Yohei Mikami¹⁾, Takanori Kanai¹⁾¹⁾Division of Gastroenterology and Hepatology, Department of Internal Medicine, ²⁾Center for Preventive Medicine, ³⁾Department of Surgery, School of Medicine, Keio University, Tokyo, Japan

WS21-17-P

A Role of Mincle in the Colonic Macrophage During Experimental Colitis○ Kotaro Ito¹⁾, Junya Tsunoda^{1,2)}, Lili Tajima¹⁾, Ichiro Mizushima¹⁾, Yuta Kaieda¹⁾, Mikami Yohei¹⁾, Takanori Kanai¹⁾¹⁾Division of Gastroenterology and Hepatology, Department of Internal Medicine, KEIO University School of Medicine, ²⁾Department of Surgery, KEIO University School of Medicine

WS21-18-P

T cell library platform as a screening strategy for intestinal microbes inducing TH17 response in ulcerative colitis○ Hideki Ogura¹⁾, Ryo Unita²⁾, Motoi Uchino³⁾, Hiroki Ikeuchi³⁾, Satoshi Ishido¹⁾¹⁾Department of Microbiology, Hyogo Medical University, Hyogo 663-8501, Japan, ²⁾Department of Emergency and Critical Care Medicine, Hyogo Medical University, Hyogo 663-8501, Japan, ³⁾Division of Inflammatory Bowel Disease, Department of Gastroenterological Surgery, Hyogo Medical University, Hyogo 663-8501, Japan

WS21-19-P

W27 IgA Antibody Enables Detection of Pathogenic Bacteria-Enriched Tumor Regions in a CRC Mouse Model○ Seyong Ko, Naoki Morita, Genta Furuya, Keishu Takahashi, Reiko Shinkura
The University of Tokyo

WS21-20-O/P

ILC3s-neuro axis in the gut regulates energy metabolism during fasting○ Takuma Misawa^{1,2)}, Kazuyo Moro^{1,3,4,5)}, Shigeo Koyasu²⁾¹⁾Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences (IMS), ²⁾Laboratory for Immune Cell Systems, RIKEN Center for Integrative Medical Sciences (IMS), ³⁾Laboratory for Innate Immune Systems, Department of Immunology and Microbiology, Graduate School of Medicine, The University of Osaka, ⁴⁾Laboratory for Innate Immune Systems, Immunology Frontier Research Center (IFReC), The University of Osaka, ⁵⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Frontier Biosciences, The University of Osaka

December 12

WS22 T cell differentiation and function

WS22-01-O/P

Bcl11-Cxhc1 axis controls stage-specific chromatin accessibility during lymphopoiesis

○ Kazuki Okuyama, Ichiro Taniuchi

Laboratory for Transcriptional Regulation, RIKEN Center for Integrative Medical Sciences

WS22-02-O/P

DEAD-box RNA helicase 6 regulates T cell activation and drives autoimmune pathogenesis

○ Chihiro Goya, Asako Kajiya, Ting Cai, Masanori Yoshinaga, Osamu Takeuchi
Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS22-03-O/P

In vivo CRISPR screening reveals metabolic control of TFH cells and humoral immunity by phosphatidylethanolamine

○ Guotong Fu
Shanghai Immune Therapy Institute

WS22-04-O/P

Bob1+ T follicular helper cells support intestinal mucosal immunity

○ Shotaro Shirato^{1,2}, Ippei Ikegami¹, Takashi Sasaki³, Umi Komabayashi¹, Ayumi Tatekoshi^{1,2}, Masayoshi Kobune², Shingo Ichimiya¹
¹Department of Immunology, Research Institute for Immunology, Sapporo Medical University School of Medicine, ²Department of Hematology, Sapporo Medical University School of Medicine, ³Animal Research Center, Sapporo Medical University School of Medicine

WS22-05-O/P

MyD88 signaling suppresses memory T helper cell formation

○ Kokoro Ohki¹, Shintaro Hojyo², Koji Tokoyoda¹
¹Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan, ²Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan

WS22-06-O/P

PD-1 suppresses germinal center reaction and affinity maturation of antibodies

○ Yosuke Tokumaru^{1,2}, Yuka Nakajima^{1,3}, Kensuke Suzuki^{1,2}, Tasuku Honjo³, Akio Ohta¹
¹Department of Immunology, Foundation for Biomedical Research and Innovation at Kobe (FBRI), ²Drug Discovery Department, R&D Division, Meiji Seika Pharma Co, Ltd., ³Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

WS22-07-O/P

Antigen-Presenting Extracellular Vesicles Enable Subset-Specific Modulation of CD4⁺ T Cells

○ Uryo Onishi^{1,2}, Ryouken Kimura², Shota Imai², Xiabing Lyu^{2,3}, Tomoyoshi Yamano^{2,3}, Rikinari Hanayama^{2,3}
¹School of Medical and Pharmaceutical Sciences, Kanazawa University, ²Department of Immunology, Graduate School of Medicine, Kanazawa University, ³WPI Nano Life Science Institute (NanoLSI), Kanazawa University

WS22-08-P

Multi-omics analysis reveals metabolic sensing of lipid deficiency drives fatty acid uptake

○ Takeru Endo^{1,2}, Keisuke Miyako², Toshio Kanno², Haruhiko Koseki¹, Yusuke Endo²
¹Chiba University, Department of Cellular and Molecular Medicine, ²Kazusa DNA Research Institute, Laboratory of Medical Omics Research

WS22-09-P

Differential Lck interactomes under the TCR signals engaged by MHC-I and MHC-II

○ Junji Harada^{1,2}, Ichiro Taniuchi¹
¹Laboratory for Transcriptional Regulation, IMS, RIKEN, ²Department of RIKEN Molecular and Chemical Somatology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo

WS22-10-P

Unraveling relevance of phosphorylation on multiple tyrosine residues in Runx1 during thymocyte differentiation

○ Zhizhen Qin^{1,2}, Ichiro Taniuchi¹
¹Laboratory for Transcriptional Regulation, RIKEN Center for Integrative Medical Science, RIKEN, ²Department of RIKEN Molecular and Chemical Somatology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo

WS22-11-P

Regulatory T cells exhibit homeostatic proliferation and differentiation in lymphopenic and lymphosufficient environments

○ Feng Gao¹, Jing Li¹, Reoka Aoki¹, Fanyue Meng¹, Natsuki Asami¹, Shunichi Tayama¹, Naoto Ishii¹, Takeshi Kawabe^{1,2}
¹Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan., ²Division for the Establishment of Frontier Sciences, Tohoku University Organization for Advanced Studies, Sendai, Japan.

WS22-12-P

Analysis of a newly identified mouse strain with abundant Th17 cells in the lamina propria of the small intestine

○ Kaichi Kasai^{1,2}, Yukihiro Furusawa¹, Yoshinori Nagai¹
¹Department of Biotechnology and Pharmaceutical Engineering, Graduate School of Engineering, Toyama Prefectural University, ²Ikedamohando Co., Ltd

WS22-13-P

Dissecting the cell-intrinsic role of CTLA-4 in Tfh differentiation and function

○ Sae Ando, Naoya Kase, Mao Yamada, Minoru Ishimaru, Taiga Kiyofune, Tomohiro Konagaya, Shuhei Ogawa, Yohsuke Harada

Tokyo University of Science

WS22-14-P

Development of Animal-Origin Free Medium for Efficient T Cell Differentiation from hiPSCs

○ Marina Takeuchi, Rino Kimura, Yasuyuki Kita, Jessica Chang, Yu Sudo

Ajinomoto Co., Inc.

WS22-15-P

Effect of Intracellular Zinc Homeostasis on Human T Cell Function

○ Airi Negami¹⁾, Taiga Yunoue¹⁾, Takumi Murayama¹⁾, Shin Ejima²⁾, Junya Ohtake^{3,4)}, Hidemitsu Kitamura^{1,2,3,4)}

¹⁾Course of Biomedical Engineering, Graduate School of Life Sciences, Toyo University, ²⁾Department Biomedical Engineering, Faculty of Science and Engineering, Toyo University, ³⁾Research Facility Center, Asaka, Toyo University, ⁴⁾Research Center, Biomedical Engineering, Toyo University

WS22-16-P

Immune Cell Differentiation Analysis Using Third Generation Sequencing

○ Yamato Tanabe^{1,2,3)}, Makoto Kurachi¹⁾, Sotaro Fujisawa¹⁾, Kazuo Okamoto^{2,3)}

¹⁾Molecular Genetics, Graduate School of Medical Sciences, Kanazawa University, ²⁾Division of Immune Environment Dynamics, Cancer Research Institute, Kanazawa University, ³⁾Immune Network Research Unit, Pursuit of Truth Research Core, Institute for Frontier Science Initiative, Kanazawa University

WS22-17-P

Modulation of SCD2 triggers STING-mediated type I interferon production via nuclear DNA leakage

○ Toshio Kanno, Keisuke Miyako, Yusuke Endo

KAZUSA DNA Institution, Laboratory of Medical Omics Research

WS22-18-P

Systemic IgE and local Th2 cells cooperatively promote local IgE response and development of allergic rhinitis in mice

○ Takuya Nakai^{1,2)}, Kazufumi Matsushita¹⁾, Etsushi Kuroda¹⁾

¹⁾Department of Immunology, Hyogo Medical University School of Medicine., ²⁾Department of Orthopaedic Surgery, Hyogo Medical University School of Medicine.

WS22-19-P

CD4+ CD8 alpha+ double positive T cells in the periphery are induced from CD4 single positive T cells by TCR signaling with IL-6 and IL-7

○ Ryota Takahashi, Hirohito Ishigaki, Takako Sasamura, Kenichi Otaki, Yasushi Itoh

Shiga University of Medical Science

WS22-20-P

Unconventional immune responses in lipid nanoparticle-based mRNA vaccines

○ Hung Huynh¹⁾, Ryunosuke Muro¹⁾, Taku Ito-Kureha²⁾, Hiroshi Takayanagi²⁾, Takeshi Nitta¹⁾

¹⁾Tokyo University of Science, Research Institute for Biomedical Sciences, Division of Molecular Pathology, ²⁾The University of Tokyo, Graduate School of Medicine and Faculty of Medicine, Department of Immunology

WS22-21-P

The Role of BRD4 in Thymic Differentiation and Function

○ Dinah Singer, Jie Mu, Mami Matsuda-Lennikov, Yousuke Takahama

National Cancer Institute, NIH

December 12

WS23 Tumor Immunity - Therapies

WS23-01-P

The Runx3R122C Variant induces Effector TEXprog Development and Improves CD8-T cell Anti-tumor Immunity

○ Aneela Nomura¹⁾, Ei Wakamatsu²⁾, Hideyuki Yoshida¹⁾, Kazuki Okuyama¹⁾, Koshi Imami¹⁾, Masato Kubo¹⁾, Yoshiaki Ito³⁾, Tadashi Yokosuka²⁾, Shiki Takamura¹⁾, Ichiro Taniuchi¹⁾

¹⁾RIKEN IMS, ²⁾Tokyo Medical University, ³⁾National University of Singapore

WS23-02-P

Anti-soluble CD155 antibody augments the efficacy of PD-1 blockade on tumor immunity

○ Shota Kinoshita^{1,2)}, Tomohei Matsuo¹⁾, Naoto Takeuchi^{1,3)}, Akira Shibuya^{1,4)}, Kazuko Shibuya^{1,4)}

¹⁾Department of Immunology, Institute of Medicine, University of Tsukuba, ²⁾Ph. D. program of Human Biology, Comprehensive Human Sciences, University of Tsukuba, ³⁾Doctoral Program in Medical Science, Comprehensive Human Sciences, University of Tsukuba, ⁴⁾R&D Center for Innovative Drug Discovery, University of Tsukuba

WS23-03-O/P

Harnessing an epigenetic rewiring technique to tailor T cell differentiation for controlling colitis and tumors

○ Lorene Rousseau^{1,2}, Stefania Vilbois¹, Stanislav Dergun¹, Ping-Chih Ho¹

¹University of Lausanne UNIL, ²Centre Hospitalier Universitaire Vaudois CHUV

WS23-04-O/P

Engineering a tunable split CAR system with low immunogenicity for next-generation cancer immunotherapy

○ Tsukasa Shigehiro, Ryuki Ueda, Hiroyuki Kadota, Tomokatsu Ikawa

Tokyo University of Science, Research Institute for Biomedical Sciences

WS23-05-P

Generation of functional human NK and T cells in human IL-15 and IL-15 receptor alpha-expressing NOG mice transplanted with human CD34+ hematopoietic stem cells

○ Asami Hanazawa¹, Motohito Goto¹, Hideki Nabekawa², Riichi Takahashi¹, Takeshi Takahashi¹, Taichi Yamamoto^{1,2}, Masami Suzuki¹

¹Central Institute for Experimental Medicine and Life Science, ²In-Vivo Science Inc.

WS23-06-P

Advancing CAR T Clinical Development with High-Parameter CyTOF Technology

○ Masahiro Otsu¹, Ling Wang², Shakir Hasan², Stephen Li², Michael Cohen², Deeqa Mahamed², Christina Loh²

¹Standard BioTools, ²Standard BioTools Canada Inc.

WS23-07-O/P

Reprogramming antitumor T cells to achieve a long-lived memory phenotype

○ Mirei Kataoka, Yusuke Ito, Yuki Kagoya

Keio University

WS23-08-O/P

Exosomes, regulated by SPRED2, reshape tumor microenvironment via activating IL6/ STAT3 signaling

○ Tong Gao, Miao Tian, Tianyi Wang, Masahiro Fujisawa, Toshiaki Ohara, Teizo Yoshimura, Akihiro Matsukawa

Okayama University

WS23-09-P

Achieving persistency of T cells with TCR-engineered Hematopoietic Progenitor Cells for eradication of solid tumors

○ Richard Koya

University of Chicago

WS23-10-P

A simplified and feeder-free process to produce iPSC-derived T cells compatible with automated large-scale culture systems

○ Seiji Nagano¹, Junichi Fukunaga^{1,2}, Hiroshi Kawamoto¹

¹Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University, ²Rebirthel Co., Ltd.

WS23-11-O/P

PD-L1 blockade expanded a proliferative subset within exhausted CD8+ tumor-infiltrating lymphocytes

○ Naoya Baba¹, Tsunoda Mikiya¹, Munetomo Takahashi², Masaki Kurosu¹, Haru Ogiwara¹, Kouji Matsushima¹, Satoshi Ueha¹

¹Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, ²The University of Tokyo

WS23-12-P

Development of TCR-T cells targeting solid tumors using novel lentiviral vector and RetroNectin®

○ Mako Tomogane, Yasunori Amaishi, Izumi Maki, Kaho Takeichi, Makie Takematsu, Sachiko Okamoto

TAKARA BIO INC.

WS23-13-P

Evaluation of Immune Checkpoint Inhibitory Activity of Subcritical Water Extracts from the Fruiting Body of *Hericium erinaceus*

○ Hajime Kobori^{1,2}, Taro Yasuma³, Masaaki Toda³, Jing Wu^{2,4}, Kazuhiko Masuno⁵, Hirokazu Kawagishi^{2,6}, Corina D'Alessandro-Gabazza³, Esteban Gabazza³

¹Iwade Research Institute of Mycology Co., Ltd., ²Research Institute for Mushroom Science, Shizuoka University, ³Department of Immunology, Mie University School of Medicine, ⁴Faculty of Agriculture, Iwate University, ⁵Nagano Prefecture General Forest Research Center, ⁶Faculty of Agriculture, Shizuoka University

WS23-14-P

Soluble CD155 attenuates tumor immune response in tumorigenesis○ Naoto Takeuchi^{1,2)}, Soontae Gwon¹⁾, Shota Kinoshita¹⁾, Akira Shibuya^{1,3)}, Kazuko Shibuya^{1,3)}¹⁾Departments of Immunology, Institute of Medicine, University of Tsukuba, ²⁾Doctoral Program of Clinical Sciences, Comprehensive Human Sciences, University of Tsukuba, ³⁾R&D Center for Innovative Drug Discovery, University of Tsukuba

WS23-15-P

Leukocyte progenitor-derived CAR-NK cells exhibit superior antitumor activity and reduced alloreactivity compared to CAR-T cells

○ Jia Han, Tsukasa Shigehiro, Karin Noma, Takashi Kimura, Tomokatsu Ikawa

Tokyo University of Science

WS23-16-O/P

Prevention of NK cell-mediated rejection by using mAbs for inhibitory receptors of NK cells○ Masao Itahara¹⁾, Kyoko Masuda¹⁾, Koji Terada²⁾, Yuma Kato¹⁾, Yasutoshi Agata²⁾, Hisashi Arase³⁾, Hiroshi Kawamoto¹⁾¹⁾Department of Immunology, Institute for Life and Medical Sciences, Kyoto University, ²⁾Department of Biochemistry and Molecular Biology, Shiga University of Medical Science, ³⁾Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka

WS23-17-P

Targeting of Lipo-P4-aPDL1 induces anticancer effect on PC3, a prostate cancer cell line○ Yuuki Hoshino¹⁾, Shino Oshima¹⁾, Yoshiyuki Manabe²⁾, Hitoshi Ishimoto³⁾, Sunao Shoji⁴⁾, Takashi Shiina¹⁾, Yoshie Kametani¹⁾¹⁾Dept. of Mol. Life Sci. Tokai Univ. Schl. Med., ²⁾Dept. of Chem. Grad Schl Sci., The University of Osaka ³⁾Dept. OB-GYN, Tokai Univ. Schl. of Med., ⁴⁾Dept. of Urol., Tokai Univ. Schl. Med

WS23-18-O/P

iPS cell-derived NKT cells recognize NCR3LG1 and show anti-tumor effects

○ Hongxuan Wang, Takahiro Aoki, Mariko Takami, Daiki Shimizu, Katsuhiro Nishimura, Ko Ozaki, Shinichiro Motohashi

Chiba University

WS23-19-P

Streamlined CAR-T Cell Manufacturing via Integration of RetroNectin®, G-Rex, and Lentiviral Vectors

○ Yasunori Amaishi, Izumi Maki, Seina Inui, Sachiko Okamoto

Takara Bio Inc.

WS23-20-P

SHP2 inhibition: A dual-action approach for advancing cancer immunotherapy○ Bayarbat Tsevegjav¹⁾, Hirotake Tsukamoto²⁾, Osamu Kikuchi¹⁾¹⁾Division of Clinical Pharmacology and Cancer Immunotherapy, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, ²⁾Division of Clinical Immunology and Cancer Immunotherapy, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

December 12

WS24 Allergy (II): Mastering Disease Control

WS24-01-O/P

Pivotal roles of receptor for advanced glycation end product in the pathogenesis of allergic contact dermatitis○ Ryutaro Yamazaki¹⁾, Ryutaro Koishi¹⁾, Tetsuya Honda²⁾, Kenji Kabashima³⁾, Yasuhiko Yamamoto⁴⁾, Jun Kunisawa⁵⁾, Takahiro Nagatake^{1,5)}¹⁾Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, ²⁾Department of Dermatology, Hamamatsu University School of Medicine, ³⁾Department of Dermatology, Kyoto University Graduate School of Medicine, ⁴⁾Department of Biochemistry and Molecular Vascular Biology, Kanazawa University Graduate School of Medical Sciences, ⁵⁾Laboratory of Vaccine Materials and Laboratory of Gut Environmental System, Microbial Research Center for Health and Medicine, National Institutes of Biomedical Innovation, Health and Nutrition

WS24-02-O/P

Psychological stress induces β 2-adrenergic signaling-mediated macrophage immunosenescence and epigenetic suppression of efferocytosis in allergic skin inflammation○ Soichiro Yoshikawa¹⁾, Kei Nagao¹⁾, Sumika Toyama¹⁾, Mitsutoshi Tominaga¹⁾, Kenji Takamori^{1,2)}¹⁾Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, ²⁾Department of Dermatology, Juntendo University Urayasu Hospital

WS24-03-O/P

Role of resident memory Th2 cells in a protease allergen-induced allergic airway inflammation

○ Seiji Kamijo, Toshiro Takai, Ko Okumura

Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine

WS24-04-O/P

Endogenous soluble ST2 inhibits food allergic responses in murine models

○ Kumi Izawa¹⁾, Mayuki Kojima^{1,2)}, Tomoaki Ando¹⁾, Keiko Maeda¹⁾, Ayako Kaitani¹⁾, Nobuhiro Nakano¹⁾, Akie Maehara¹⁾, Naoko Negishi¹⁾, Ko Okumura¹⁾, Jiro Kitaura¹⁾

¹⁾Atopy Research Center, Juntendo University School of Medicine, ²⁾Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine

WS24-05-O/P

Antigen-specific stimulation regulates impaired induction and dysfunction of regulatory T cell in food allergy

○ Tomohiro Hoshino, Kyoko Shibahara, Haruka Nakanishi, Kohei Soga, Kosuke Nishitsuji, Yoshiyo Bamba, Satoshi Hachimura, Haruyo Nakajima-Adachi

The University of Tokyo

WS24-06-O/P

Differential local IgE responses among mouse strains regulate the severity of food allergy-induced diarrhea

○ Hiroka Yamashita¹⁾, Yasutaka Motomura^{1,4)}, Kazuyo Moro^{1,2,3)}

¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Laboratory for Innate Immune Systems, IReC, The University of Osaka, ⁴⁾Research Institute for Biomedical Science, Tokyo University of Science

WS24-07-O/P

The role of immune cells in the choroid of the eye: Mast cells as regulators of myopia

○ Shin-ichi Ikeda^{1,2)}, Tomokazu Fukuchi^{1,2)}, Jue Shi^{1,2)}, Kazuno Negishi¹⁾, Kazuo Tsubota^{1,3)}, Toshihide Kurihara^{1,2)}

¹⁾Department of Ophthalmology, Keio University School of Medicine, ²⁾Laboratory of Photobiology, Keio University School of Medicine,

³⁾Tsubota Laboratory, Inc

WS24-08-O/P

The role of conjunctival friction and pollen shells in the goblet cell-associated antigen passage (GAP) formation

○ Yasuharu Kume^{1,2)}, Tomoaki Ando¹⁾, Keiji Matsumoto^{1,2,3)}, Ryo Omori^{1,2,3)}, Meiko Kimura^{1,2)}, Moe Matsuzawa^{1,2)}, Kumi Izawa¹⁾, Ayako Kaitani¹⁾, Ko Okumura¹⁾, Shintaro Nakao^{1,3)}, Nobuyuki Ebihara²⁾, Jiro Kitaura^{1,2,4)}

¹⁾Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²⁾Department of Ophthalmology, Juntendo University Urayasu Hospital, ³⁾Department of Ophthalmology, Juntendo University Graduate School of Medicine, ⁴⁾Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine

WS24-09-P

Differential characteristics of atopic dermatitis-like skin inflammation developed in distinct CD4+ T cell-cloned mouse lines

○ Uyanga Enkhbaatar¹⁾, Kento Miura¹⁾, Norimasa Yamasaki¹⁾, Sawako Ogata¹⁾, Kimiko Inoue^{2,3)}, Atsuo Ogura²⁾, Osamu Kaminuma¹⁾

¹⁾Department of Disease Model, Research Institute for Radiation Biology and Medicine, Hiroshima University, Hiroshima 734-8553, Japan,

²⁾RIKEN BioResource Research Center, ³⁾Graduated School of Life and Environmental Science, University of Tsukuba

WS24-10-P

Aryl hydrocarbon receptor differentially modulates basophil activation induced by IgE/allergen or IL-3 plus IL-33 stimulation

○ Kei Nagao, Soichiro Yoshikawa, Zheyu Hu, Ayako Yamashita, Sumika Toyama, Mitsutoshi Tominaga, Kenji Takamori
Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan

WS24-11-P

Prophylactic allergen administration onto the oral mucosa prevents ovalbumin-induced allergic immune response and anaphylaxis in mice

○ Yuya Yoshida¹⁾, Ryohei Shibao¹⁾, Hiroki Urakawa¹⁾, Hikaru Fuchita¹⁾, Yusei Kiuchi¹⁾, Mina Iwata¹⁾, Norihisa Mikami^{2,3)}, Ryoji Kawakami^{2,3)}, Hirohito Kita^{4,5)}, Takumi Tsuji¹⁾

¹⁾Department of Pathological Biochemistry, Faculty of Pharmaceutical Sciences, Setsunan University, Hirakata, Osaka, Japan, ²⁾Department of Experimental Immunology, Immunology Frontier Research Center, The University of Osaka, Suita, Osaka, Japan, ³⁾Department of Experimental Pathology, Institute for Frontier Life and Medical Sciences, Kyoto University, Sakyo-ku, Kyoto, Japan, ⁴⁾Division of Allergy, Asthma and Clinical Immunology, and Department of Medicine, Mayo Clinic Arizona, Scottsdale, AZ, USA, ⁵⁾Department of Immunology, Mayo Clinic Rochester, Rochester, MN, USA

WS24-12-P

Mechanism of inhibition of allergic inflammatory reactions by molecules derived from indigenous skin bacteria

○ Reina Mukainaka, Yuma Ito, Isamu Ogawa, Shigeaki Hida
Graduate School of Pharmaceutical Sciences, Nagoya City University

WS24-13-P

The role of Foxp3-deficient Treg cells in skin inflammation induced by Foxp3 and Bcl6 deficiency

○ Hina Nakamura, Naoya Kase, Chizuru Nakakomi, Manami Shimakata, Mai Banno, Ryotaro Kanari, Yosuke Harada
Tokyo University of Science

WS24-14-P

In vitro generation of human mucosal-type mast cells

○ Nobuhiro Nakano, Jiro Kitaura, Ko Okumura
Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine

WS24-15-P

Disease Severity and Antihistamine Efficacy in Relation to the Endotype of Chronic Spontaneous Urticaria

○ Ying Xie¹⁾, Ryo Saito²⁾, Daiki Matsubara²⁾, Shunsuke Takahagi³⁾, Michihiro Hide²⁾, Sungrim Seirin-Lee^{1, 4)}
¹⁾Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University Institute for Advanced Study, Kyoto University, ²⁾Department of Dermatology, Graduate School of Biomedical and Health Sciences, Hiroshima University, ³⁾Department of Dermatology, JA Hiroshima General Hospital, ⁴⁾Department of Mathematical Medicine, Graduate School of Medicine, Kyoto University

WS24-16-P

The Role of TNFSF14 (LIGHT) in the Development of Eosinophilic Vasculitis

○ Yuka Yoshiki^{1, 2)}, Haruka Miki¹⁾, Ayako Ohyama¹⁾, Saori Abe¹⁾, Ayako Kitada¹⁾, Hiromitsu Asashima¹⁾, Yuya Kondo¹⁾, Hiroto Tsuboi¹⁾, Isao Matsumoto¹⁾
¹⁾Department of Rheumatology, Institute of Medicine, University of Tsukuba, ²⁾Master's Program in Medical Sciences, Degree Programs in Comprehensive Human Sciences, Graduate School of Comprehensive Human Sciences, University of Tsukuba

WS24-17-P

Different effects of acute and chronic exercise on allergic responses

○ Takeru Sakaue, Kakeru Takenobu, Ako Matsui, Genta Akiyama, Minako Ito
Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

WS24-18-P

Therapeutic effects of flavonoids derived from *Rosae multiflorae* Fructus in a mouse model of atopic dermatitis

○ Hee Soon Shin
Korea Food Research Institute

WS24-19-P

Phenotype and responsiveness of lung immune cells in mouse model of food allergy

○ Masato Tsuda, Kazuya Nakadai, Takumi Mizoguchi, Akira Takahashi, Akira Hosono
Department of Food Science and Technology, College of Bioresource Sciences, Nihon University

December 12

WS25 Systemic autoimmunity, Autoinflammation and Immunodeficiency

WS25-01-P

The role of fatty acid elongase Elovl6 in T cells and B cells in a murine model of systemic lupus erythematosus

○ Ryohei Nishino, Yuya Kondo, Reona Tanimura, Ryota Sato, Masaru Shimizu, Ayako Ohyama, Ayako Kitada, Saori Abe, Haruka Miki, Hiromitsu Asashima, Hiroto Tsuboi, Isao Matsumoto
Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS25-02-O/P

Role of IFN γ ⁺CD4⁺ T cells in promoting autoantibody production via B cell differentiation in a toll-like receptor 7 agonist-induced lupus model

○ Reona Tanimura, Yuya Kondo, Ryota Sato, Ryohei Nishino, Hiromitsu Asashima, Haruka Miki, Hiroto Tsuboi, Takayuki Sumida, Isao Matsumoto
Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS25-03-O/P

Breaking Immune Tolerance: Self and Neoself Discrimination by T cells in Autoimmune Diseases

○ Shunsuke Mori¹⁾, Hisashi Arase^{1, 2)}
¹⁾Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka, ²⁾Laboratory of Immunochemistry, World Premier International Immunology Frontier Research Centre, The University of Osaka

WS25-04-P

Correlation of interferons and autoimmune aspects in long COVID-19 patients

○ Fumiyuki Hattori, Junji Nishiyama, Hideaki Hasuo
Kansai Medical University

WS25-05-P

Involvement of gut microbiota in the development and worsening of lupus mesenteric vasculitis

○ Maki Fujishiro¹⁾, Kunihiro Hayakawa¹⁾, Keigo Ikeda²⁾, Shinji Morimoto²⁾

¹⁾Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, ²⁾Department of Internal Medicine and Rheumatology, Juntendo University Urayasu Hospital

WS25-06-P

Investigating the contributions of gut microbiota on autoimmune induction in a mouse model

○ Kunihiro Hayakawa, Maki Fujishiro

Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine

WS25-07-P

Adenosine deaminase promotes B cell differentiation and contributes to the pathogenesis of systemic lupus erythematosus

○ Koki Matsushita, Yu Nagayoshi, Hitomi Kaneko, Ryosuke Yamamura, Takeshi Chujo, Kazuhito Tomizawa

Department of Molecular Physiology, Faculty of Life Sciences, Kumamoto University

WS25-08-P

Soluble Phospholipase D4 Regulates Human B Cell Function via Toll-like Receptor 9

○ Yihan Liu, Shuji Akizuki, Mirei Shirakashi, Ryosuke Hiwa, Hideaki Tsuji, Ran Nakashima, Hajime Yoshifuji, Akio Morinobu

Kyoto University

WS25-09-P

Immunological Hallmarks of Peripheral T Cells in SLE Revealed by Mass Cytometry: Distinct Profiles Compared to HC and RA

○ Shinji Maeda, Shin-ya Tamechika

Department of Respiratory Medicine, Allergy and Clinical Immunology, Nagoya City University

WS25-10-P

Autoreactive CD11c+ B cell expansion is controlled by NR4A2 in helper T cells

○ Eiichiro Amano, Ben Raveney, Takashi Yamamura, Shinji Oki

National Institute of Neuroscience, National Center of Neurology and Psychiatry

WS25-11-P

All-trans-retinoic acid suppresses age-associated B cell generation and ameliorates autoimmunity

○ Keisuke Imabayashi, Yoshihiro Baba

Kyushu University

WS25-12-P

Arl8b plays an essential role in the development of systemic lupus erythematosus by reducing the increase of abnormal T cell numbers

○ Shin-Ichiroh Saitoh^{1,2)}, Yoshiko Mori Saitoh^{1,2)}, Kenji Kontani³⁾, Yukihisa Tanaka⁴⁾, Tamami Denda^{4,5)}, Yasunori Ota⁴⁾, Kensuke Miyake^{2,6,7)}, Shin-Ichiroh Saitoh^{1,2)}

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WS25-13-O/P

A prognostic type I interferon signature in ANCA-associated glomerulonephritis

○ Nariaki Asada, Robin Khatri, Jonas Engesser, Huiying Wang, Pauline Ginsberg, Ulf Panzer

University Medical Center Hamburg -Eppendorf

WS25-14-O/P

Recognition of Neoself Antigens by Clonally Expanded Salivary Gland T Cells in Sjögren's Syndrome

○ Katsuhiro Atagi¹⁾, Shunsuke Mori¹⁾, Michiko Ohashi^{1,2,3)}, Yang Jing^{1,2)}, Shoji Kawada³⁾, Noriko Arase⁴⁾, Hui Jin¹⁾, Masayuki Nishide³⁾, Manabu Fujimoto⁴⁾, Atsushi Kumanogoh³⁾, Hisashi Arase^{1,2)}

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WS25-15-P

Immunological effect on neuropsychiatric symptoms in Sjögren's syndrome models

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³⁾Department of Occlusion and Oral Functional Rehabilitation, Institute of Science Tokyo

WS25-16-P

Umbilical cord-derived mesenchymal stem cells suppress the pathogenesis of primary Sjögren disease by inducing Bach2 expression

○ Yukitomo Hagiwara, Goh Murayama, Taiga Kuga, Yujin Nishioka, Masaki Nojima, Yu Yamaji, Tomoko Miyashita, Makio Kusaoi, Ken Yamaji, Naoto Tamura

Department of Internal Medicine and Rheumatology, Juntendo University School of Medicine

WS25-17-P

B cell dynamics in the bone marrow of Sjögren's syndrome model mice

○ Yuri Kinoshita^{1,2)}, Aya Ushio²⁾, Yuki Fukawa²⁾, Asami Ishii^{2,3)}, Yoshiro Matsumoto¹⁾, Takashi Ono¹⁾, Naozumi Ishimaru²⁾

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WS25-18-P

Analysis of suppressive mechanism for T cell activation via Trat1 in Sjögren's syndrome model mouse

○ Ruka Nagao¹⁾, Akiko Yamamoto²⁾, Aya Ushio³⁾, Kunihiro Otsuka¹⁾, Shigefumi Matsuzawa^{1,4)}, Takaaki Tsunematsu¹⁾, Naozumi Ishimaru³⁾

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WS25-19-P

CD4+CD8+ T cells in the cervical lymph nodes in SATB1cKO mice are autoreactive

○ Yuriko Tanaka¹⁾, Shuhei Mashimo²⁾, Akiko Inoue³⁾, Marii Ise¹⁾, Taku Naito¹⁾, Taku Kuwabara¹⁾, Motonari Kondo¹⁾

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WS25-20-P

Antigen-specific induced regulatory T cells exacerbate disease severity in a murine model of systemic sclerosis

○ Fatemeh Beygom Mirkatouli, Norimasa Yamasaki, Ryoken Yamanaka, Sawako Ogata, Megumi Nakamura, Toshiya Inaba, Osamu Kaminuma

Department of Disease Model, Research Institute for Radiation Biology and Medicine, Hiroshima University

WS25-21-O/P

Deciphering state-dependent immune features at single-cell resolution from multi-layer human omics including transcriptomics, germline variants, mosaic chromosomal alterations, and plasma proteomics

○ Ryuya Eda^{1,2)}, Go Sato^{1,2,3)}, Tatsuhiko Naito^{1,2)}, Yuya Shirai^{1,2)}, Atsushi Kumanogoh¹⁾, Yukinori Okada^{1,2,3)}

¹⁾The University of Osaka, ²⁾RIKEN Center for Integrative Medical Sciences, ³⁾The University of Tokyo

WS25-22-P

Proteasome mutant mice develop lung lesions with age

○ Hiroaki Hemmi^{1,2)}, Kohei Murakami¹⁾, Jiro Miyamae¹⁾, Izumi Sasaki²⁾, Nobuo Kanazawa³⁾, Tsuneyasu Kaisho⁴⁾

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WS25-23-O/P

Discovery of a shared disease-associated gene module across multiple autoinflammatory diseases and therapeutic implications

○ Ikuo Takazawa¹⁾, Haruka Tsuchiya¹⁾, Takahiro Itamiya^{1,2)}, Harumi Shirai¹⁾, Yumi Tsuchida¹⁾, Yasuo Nagafuchi^{1,2)}, Hirofumi Shoda¹⁾, Tomohisa Okamura^{1,2)}, Keishi Fujio¹⁾

¹⁾Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-0033, Japan, ²⁾Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-0033, Japan

WS25-24-P

iPSC-Based Analysis of Neutrophil Dysfunction in PSTPIP1-Related Autoinflammatory Syndromes

○ Fumiko Ozaki^{1,2)}, Toshiaki Ohteki¹⁾, Tomohiro Morio^{2,3)}

¹⁾Department of Pediatrics and Developmental Biology, Institute of Science Tokyo, ²⁾Department of Pediatrics and Developmental Biology, Institute of Science Tokyo, Tokyo, ³⁾Laboratory of Immunology and Molecular Medicine, Institute of Science Tokyo, Tokyo

WS25-25-O/P

Aberrant Multicellular Interferon Production and Responses Underlie Adar1 Mutation-Driven Aicardi-Goutières Syndrome-like Encephalopathy

○ Hyebin Yoo¹⁾, Taisuke Nakahama²⁾, Reiichi Sugihara³⁾, Yuki Kato⁴⁾, Yukio Kawahara⁵⁾

¹⁾Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences, The University of Osaka, Suita, Osaka, Japan,

²⁾Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences and Graduate School of Medicine, Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), Center for Infectious Disease Education and Research (CiDER), The University of Osaka, Suita, Osaka, Japan, ³⁾Graduate School of Medicine, The University of Osaka, Suita, Osaka, Japan, ⁴⁾Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences and Graduate School of Medicine, Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), Graduate School of Medicine, The University of Osaka, Suita, Osaka, Japan, ⁵⁾Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences and Graduate School of Medicine, Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), Center for Infectious Disease Education and Research (CiDER), and Genome Editing Research and Development Center, Graduate School of Medicine, The University of Osaka, Suita, Osaka, Japan

WS25-26-P

Functional analysis of UBA1 mutations responsible for VEXAS syndrome

○ Yuma Sakamoto, Masanori Iseki, Nobuyasu Baba, Tomoyuki Mukai

Kawasaki Medical School

WS25-27-O/P

A human COMMD8 variant causes inborn errors of humoral immunity by impairing B cell migration

○ Mizuki Kishi¹⁾, Taiichi Shirai^{1,2)}, Kazuhiro Suzuki^{1,2,3)}

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WS25-28-P

Combined Immunodeficiency and Ataxia-Telangiectasia: challenges in diagnostic and management

○ Teo Wijaya, Ketut Dewi Kumara Wati

Department of Child Health, Medical Faculty of Udayana University, Ngurah Hospital, Denpasar, Bali, Indonesia

WS25-29-P

Characterization of human immune cells in humanized NOG-IL-34 Tg mice under germ-free environment

○ Ikumi Katano, Yuyo Ka, Iyo Ootsuka, Kayo Tomiyama, Ryoko Nozu, Misa Mochizuki, Kenji Kawai, Riichi Takahashi, Takeshi Takahashi

CIEM

WS25-30-P

Leak expression in Cre-dependent DNA constructs assessed in the mouse genome using sensitive bioluminescent reporter

○ Toshiaki Nakashiba¹⁾, Takashi Sugiyama²⁾, Satoshi Iwano^{3,4)}, Atsushi Yoshiki¹⁾, Mizuho Iwama¹⁾, Atsushi Miyawaki³⁾, Kuniya Abe¹⁾

¹⁾RIKEN BRC, ²⁾Evident Corporation, ³⁾RIKEN CBS, ⁴⁾University of Miyazaki

WS25-31-P

Development of a Humanized Rat Model for Human HSC Xenotransplantation

○ Ryuya Iida^{1,2)}, Saeko Ishida¹⁾, Kazuto Yoshimi^{1,3)}, Takao Yogo⁴⁾, Satoshi Yamazaki⁴⁾, Tomoji Mashimo^{1,3)}

¹⁾Division of Animal Genetics, Laboratory Animal Research Center, Institute of Medical Science, the University of Tokyo, ²⁾Department of Computational Biology and Medical Sciences, Graduate School of Frontier Science, The University of Tokyo, ³⁾Division of Genome Engineering, Center for Experimental Medicine and Systems Biology, Institute of Medical Science, University of Tokyo, ⁴⁾Division of Cell Regulation, Center of Experimental Medicine and Systems Biology, the Institute of Medical Science, the University of Tokyo

December 12

WS26 Cell death and innate lymphocytes

WS26-01-P

Porphyromonas gingivalis-derived LPS induces caspase-4-dependent IL-18 maturation and pyroptosis

○ Eisuke Domae, Taiki Mori, Mariko Hanaoka, Takeshi Into

Asahi University

WS26-02-O/P

Caspase-12 functions as a pattern recognition receptor that triggers pyroptosis via gasdermin D activation in response to bacterial lipoproteins

○ Shenghui Zhi, Kohsuke Tsuchiya

Kanazawa University

WS26-03-P

Impact of *Acinetobacter* LPS-induced gasdermin D-mediated IFN- γ release on infection pathogenesis

○ Yasuyuki Matsuda¹⁾, Hajime Yamauchi¹⁾, Go Kamoshida²⁾, Tsukasa Shiraishi⁴⁾, Shin-ichi Yokota³⁾, Hideki Hara¹⁾

¹⁾Asahikawa Medical University, ²⁾Meiji Pharmaceutical University, ³⁾Sapporo Medical University, ⁴⁾Wayo Women's University

WS26-04-O/P

Single-cell analysis reveals cell death of a monocyte subset driving NLRP3-mediated IL-1 β secretion in human inflammation

○ Kentaro Kato¹⁾, Lieselotte Vande Walle²⁾, Mai Yamagishi³⁾, Takashi Kamatani⁴⁾, Masaki Shimizu⁵⁾, Takumi Takizawa⁶⁾, Junko Takita¹⁾, Ryuta Nishikomori⁷⁾, Osamu Ohara⁸⁾, Yoshitaka Shirasaki⁹⁾, Mohamed Lamkanfi²⁾, Kazushi Izawa¹⁾

¹⁾Department of Pediatrics, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾Laboratory of Medical Immunology, Department of Internal Medicine and Paediatrics, Ghent University, Ghent, Belgium, ³⁾Live Cell Diagnosis, Ltd., Saitama, Japan, ⁴⁾Department of AI Technology Development, M&D Data Science Center, Institute of Integrated Research, Institute of Science Tokyo, Tokyo, Japan, ⁵⁾Department of Pediatrics, Perinatal and Maternal Medicine, Institute of Science Tokyo, Tokyo, Japan, ⁶⁾Department of Pediatrics, Gunma University Graduate School of Medicine, Maebashi, Gunma, Japan, ⁷⁾Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan, ⁸⁾Kazusa DNA Research Institute, Kisarazu, Japan, ⁹⁾Research Center for Advanced Science and Technology, The University of Tokyo, Tokyo, Japan

WS26-05-P

Microbiota-derived peptide corisin induces apoptosis in podocytes and renal tubular epithelial cells

○ Valeria Fridman¹⁾, Taro Yasuma^{1,2)}, Tomoko Ano¹⁾, Chisa Inoue²⁾, Yuko Okano²⁾, Atsuro Takeshita^{1,2)}, Kota Nishihama²⁾, Corina Gabazza¹⁾, Masaaki Toda¹⁾, Esteban Gabazza¹⁾

¹⁾Department of Immunology, Mie University Graduate School of Medicine, ²⁾Department of Diabetes & Endocrinology, Mie University Graduate School of Medicine

WS26-06-P

V γ 6 γ 6 T cells exacerbate inflammatory responses and ischemic tissue damage acute phase after Ischemic stroke

○ Shinya Hatano, Takaharu Obuchi, Ako Matsui, Minako Ito

Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

WS26-07-O/P

PP2A negatively controls NK cell proliferation and trafficking to maintain homeostasis in peripheral tissues

○ Yui Shinzawa^{1,2,3)}, So-Ichiro Sasaki³⁾, Sadahiro Iwabuchi⁴⁾, Shinichi Hashimoto⁵⁾, Manabu Kawada⁶⁾, Makoto Kurachi²⁾, Yoshihiro Hayakawa³⁾

¹⁾Center for Biomedical Research and Education, Kanazawa University, ²⁾Department of Molecular Genetics, Kanazawa University, ³⁾Section of Host Defences, Institute of Natural Medicine, University of Toyama, ⁴⁾Department of Bioinformatics and Genomics, Kanazawa University, ⁵⁾Department of Molecular Pathophysiology, Institute of Advanced Medicine, Wakayama Medical University, ⁶⁾Laboratory of Oncology, Institute of Microbial Chemistry

WS26-08-O/P

FURIN is essential for allergic airway inflammation via regulating ILC2 effector function

○ Takuya Yashiro¹⁾, Asuka Akamatsu¹⁾, Kazuyo Moro^{1,2)}

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WS26-09-P

TL1A/DR3 signaling mediates steroid insensitivity in ILC2s through the activation of the noncanonical NF- κ B pathway

○ Hiromi Matsuyama, Kentaro Machida, Yoichi Dotake, Takahiro Matsuyama, Koichi Takagi, Kentaro Tanaka, Hiromasa Inoue

Department of Pulmonary Medicine, Graduate School of Medical and Dental Sciences, Kagoshima University

WS26-10-O/P

LTi-like cells form gut lymphoid tissues through distinctive Runx/Cbfb-dependent differentiation

○ Reo Kobayashi¹⁾, Takuma Fukui¹⁾, Eriko Sumiya²⁾, Shinichiro Sawa¹⁾

¹⁾Department of Mucosal Immunology, Medical Institute of Bioregulation, Kyushu University, ²⁾Department of Orthopedic Surgery, Faculty of Medicine, University of Tokyo

WS26-11-P

Epigenomics of Asian Atopic Dermatitis - From phenotypes to endotypes

○ Anand Kumar Andiappan¹⁾, Jing Hui Low²⁾, Shi Yong Neo²⁾, Joni Chong²⁾, Jocelyn Ong²⁾, Jay Shin³⁾, Yik Weng Yew⁴⁾, Steven Thng⁴⁾, Tim Stuart³⁾, John Common¹⁾

¹⁾A*STAR Skin Research Labs (A*SRL), Agency for Science, Technology and Research (A*STAR), Singapore, Republic of Singapore, ²⁾A*STAR Singapore Immunology Network (SigN), Agency for Science, Technology and Research (A*STAR), Singapore, Republic of Singapore, ³⁾A*STAR Genome Institute of Singapore (GIS), Agency for Science, Technology and Research (A*STAR), Singapore, Republic of Singapore, ⁴⁾National Skin Center (NSC), Singapore

Regulatory mechanism of glycosphingolipid expression in mouse NK cell lineage○ Luckman Bagas Dwiyan¹, Ka He¹, Kazuyoshi Takeda², So-ichiro Sasaki¹, Yoshihiro Hayakawa¹¹Section of Host Defences, Institute of Natural Medicine, University of Toyama, ²Laboratory of Cell Biology, Graduate School of Medicine, Juntendo University**Adenine-induced renal fibrosis in CD1d-knockout mice deteriorate compared with that in wild-type mice**○ Hiroki Ishikawa¹, Yoshihiro Kuno^{1,2}, Ryuichi Nagashima^{1,3}, Yasunari Matsuzaka¹, Chikara Kohda¹, Takeo Isozaki⁴, Hirotaka Kuwata⁵, Masayuki Iyoda^{1,2}¹Department of Microbiology and Immunology, Showa Medical University Graduate School of Medicine, ²Division of Nephrology, Department of Medicine, Showa Medical University Graduate School of Medicine, ³Division of Immunology, Department of Biosciences, Kitasato University School of Science, ⁴Department of Pathogenesis and Translational Medicine, Showa Medical University Graduate School of Pharmacy, ⁵Department of Oral Microbiology and Immunology, Showa Medical University Graduate School of Dentistry**NKT cells mediate germinal center priming and enhance humoral response induced by a novel pneumococcal vaccine**○ Koji Hayashizaki^{1,2}, Shogo Takatsuka³, Taku Ikegami¹, Toshio Kanno⁴, Masato Kubo⁵, Makoto Tsujii⁶, Yoshimasa Takahashi², Daisuke Kitamura⁷, Yusuke Endo⁴, Yuki Kinjo^{1,2}¹Department of Bacteriology, The Jikei University School of Medicine, ²Research Center for Vaccine Development, National Institute of Infectious Diseases, ³Department of Fungal Infection, National Institute of Infectious Diseases, ⁴Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, ⁵KIC Kyoto University Immunomonitoring Center, Kyoto University, ⁶Department of Microbiology, Hoshi University School of Pharmacy and Pharmaceutical Sciences, ⁷Division of Cancer Cell Biology, Reserch Institute for Biomedical Sciences (RIBS), Tokyo University of Science**Dectin-1 is involved in subset formation of invariant Natural Killer T cells in thymus**

○ Taiki Oyama, Kazuhiko Takahara

Kyoto University

Gasdermin-independent release of IL-1 family cytokines drives skin inflammation induced by Caspase-8 dependent keratinocyte death○ Masahiro Nagata^{1,2,4}, Laurens Wachsmuth^{1,2}, Eunjin Ju^{1,2}, Yasmin Carvalho Schäfer^{1,2}, Remzi Onur Eren^{1,2}, Manolis Pasparakis^{1,2,3}¹Institute for Genetics, University of Cologne, Cologne, Germany, ²Cologne Excellence Cluster on Cellular Stress Responses in Aging-Associated Diseases (CECAD), University of Cologne, Cologne, Germany, ³Center for Molecular Medicine (CMMC), University of Cologne, Cologne, Germany, ⁴Department of Medical Chemistry, Medical Research Laboratory, Institute of Integrated Research, Institute of Science Tokyo, Tokyo, Japan**Monosodium urate crystals are uptaken by HUVEC and change the gene expression**○ Motokazu Tsuneto¹, Naruomi Yamada², Kentaro Ito², Ichiro Hisatome³¹Tottori University, ²Meiji Co., Ltd., ³Matsue City Hospital**Inhibition of miR-511-3p alleviates septic inflammation via recovering PTCH1 expression**○ Eun Jeong Park¹, Xi Deng¹, Eiji Kawamoto², Motomu Shimaoka¹¹Mie University Graduate School of Medicine, ²Mie University Hospital**Elucidating Influenza A induced trained immunity of respiratory epithelial cells**○ Risa Takahashi^{1,2}, Hiroshi Kiyono^{1,2,3,4,5,6}, Kohtaro Fujihashi^{1,2,6,7,8}¹Department of Human Mucosal Vaccinology, Chiba University Hospital, Chiba, Japan, ²Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa), Chiba University, Chiba, Japan, ³Future Medicine Education and Research Organization, Chiba University, Chiba, Japan, ⁴Department of Medicine, UC San Diego School of Medicine, San Diego, CA, USA, ⁵CU-UCSD Center for Mucosal Immunology, Allergy and Vaccines (cMAV), UC San Diego School of Medicine, San Diego, CA, USA, ⁶Division of Infectious Disease Vaccine R&D, Research Institute of Disaster Medicine, Chiba University, Chiba, Japan, ⁷Division of Mucosal Vaccines, International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ⁸Department of Pediatric Dentistry, The University of Alabama at Birmingham, Birmingham AL, USA

WS27 Dendritic cells, macrophages, granulocytes

WS27-01-P

Regulation of CCL2 expression by KCa3.1 K⁺ channel and LRR8A Cl⁻ channel in THP-1-differentiated M2 macrophages

○ Miki Matsui, Susumu Ohya
Nagoya City University

WS27-02-P

Elucidation of the regulatory mechanism of fibrosis-inducing macrophages mediated by protein crosslinking enzyme

○ Naoki Shiota, Hideki Tatsukawa, Kiyotaka Hitomi
Cellular Biochemistry Lab., Graduate School of Pharmaceutical Sciences, Nagoya University

WS27-03-P

Evaluation of Inflammatory Response Induced by Different Sizes of Monosodium Urate Crystals

○ Yamato Okumura¹, Yuya Haga^{1,2}, Moe Okumura¹, Kazuma Higashisaka^{1,2,3}, Yasuo Tsutsumi^{1,2,4,5,6,7}
¹School of Pharmaceutical Sciences, The University of Osaka, ²Graduate School of Pharmaceutical Sciences, The University of Osaka, ³Institute for Advanced Co-Creation Studies, The University of Osaka, ⁴Graduate School of Medicine, The University of Osaka, ⁵Global Center for Medical Engineering and Informatics, The University of Osaka, ⁶Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, ⁷R3 Institute for Newly-Emerging Science Design, The University of Osaka

WS27-04-O/P

Resident bronchus-associated macrophages shape the local inflammatory environment in chronic asthma

○ Suzuka Tokunaga¹, Kentaro Fujii², Masaru Ishii^{1,2}
¹Department of Immunology and Cell Biology, Graduate School of Frontier Biosciences, The University of Osaka, ²Department of Immunology and Cell Biology, Graduate School of Medicine, The University of Osaka

WS27-05-O/P

Specialized immune responses of jawbone macrophages adapted to oral microbial environment

○ Sumire Kikuchi^{1,2}, Yasuhito Yahara^{1,4}, Narikazu Uzawa², Masaru Ishii^{1,3}
¹Department of Immunology and Cell Biology, Graduate School of Medicine, The University of Osaka, ²Department of Oral and Maxillofacial Oncology and Surgery, Graduate School of Dentistry, The University of Osaka, ³WPI-Immunology Frontier Research Center, The University of Osaka, ⁴Department of Orthopaedic Surgery, Faculty of Medicine, The University of Toyama

WS27-06-P

Biological Effects of Environmentally Relevant Micro- and Nanoplastics on RAW264.7 and THP-1 Cells

○ Yuya Haga^{1,2}, Sota Manabe², Wakaba Idehara², Mii Hokaku¹, Phyo Bo Bo Aung¹, Yuto Motoyama¹, Ayaha Mori², Hirofumi Tsujino^{1,2,3}, Haruyasu Asahara^{1,2,4}, Kazuma Higashisaka^{1,2,5}, Yasuo Tsutsumi^{1,2,4,6,7,8}
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WS27-07-P

FOXO1 Inhibition Attenuates Macrophage Polarization and Fibroblast Activation in Pulmonary Fibrosis

○ Hinata Wade, Masahiro Kitabatake, Ryutaro Furukawa, Atsushi Hara, Kaito Yasuike, Noriko Oujii-Sageshima, Toshihiro Ito
Department of Immunology, Nara Medical University

WS27-08-P

Non-invasive cell harvesting technology without using Scraper or Trypsin

○ Eriko Ikeda, Asumi Yoshihara, Yuzo Kasuya
CellSeed. Inc

WS27-09-P

MALAT1 as a HADHB-Interacting LncRNA Regulating Human Macrophage Metabolism

○ Yuxiang Liu^{1,2}, Yukiteru Nakayama¹, Katsuhito Fujii¹
¹Department of Advanced Cardiology, the University of Tokyo, Tokyo, Japan, ²Department of Cell Biology, Institute for Advanced Medical Sciences, Nippon Medical School, Tokyo, Japan

WS27-10-P

ANHs-Modified Thrombin-Binding Aptamer Exhibits Anti-Proliferative Activity and Promotes M1 Macrophage Polarization for Targeting Cancer Cells in Immunotherapy

○ Tatum Andini
Graduate School of Medicine, The University of Osaka

WS27-11-P

Contribution of the orphan G protein-coupled receptor GPR137B to monocyte-neutrophil differentiation switching

○ Kaho Kobayashi, Runa Matsumoto, Naoya Mizukami, Zohirul Islam, Takashi Inui, Osamu Ishibashi
Department of Applied Biological Chemistry, Graduate School of Agriculture, Osaka Metropolitan University

WS27-12-P

In vivo Visualization of Macrophage Subpopulations in Stroke Using Quantum Nanosensors

○ Ayaka Takada¹⁾, Manami Takahashi¹⁾, Mariko Handa¹⁾, Masaki Yoshioka¹⁾, Kiichi Kaminaga²⁾, Chihiro Suzuki²⁾, Hiroshi Abe³⁾, Yuta Masuyama³⁾, Takeshi Ohshima³⁾, Ryuji Igarashi²⁾, Hiroyuki Takuwa¹⁾

¹⁾Quantum Neuromapping and Neuromodulation Team, Institute for Quantum Life Science, National Institutes for Quantum Science and Technology, ²⁾Future Quantum Sensors Team, Institute for Quantum Life Science, National Institutes for Quantum Science and Technology, ³⁾Quantum Materials and Applications Research Center, Takasaki Institute for Advanced Quantum Science, National Institutes for Quantum Science and Technology

WS27-13-O/P

Macrophage-derived gelsolin promotes fibroblast migration during skin wound healing

○ Eri Toyohara^{1,2)}, Fumiyuki Sasaki²⁾, Teruyuki Dohi¹⁾, Masumi Shimizu²⁾, Eriko Koike²⁾, Rei Ogawa¹⁾, Rimpei Morita²⁾

¹⁾Department of Plastic, Reconstructive and Aesthetic Surgery, Nippon Medical School, Tokyo, Japan, ²⁾Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan

WS27-14-P

A mechanism of NLRP3 inflammasome regulation by TAK1-binding protein 2 (TAB2)

○ Giichi Takaesu, Tanveer Ali, Goro Matsuzaki

University of the Ryukyus

WS27-15-P

Fibroblast-Mediated Loss of Red Pulp Macrophages Exacerbates Sepsis Following Viral Infection

○ Keishi Etori¹⁾, Shigeru Tanaka¹⁾, Kohtaro Fujihashi^{2,3,4,5)}, Shin-ichi Koizumi⁶⁾, Shinichiro Sawa⁶⁾, Tsuneyasu Kaisho⁷⁾, Wataru Ise⁸⁾, Shintaro Shichinohe⁹⁾, Tokiko Watanabe⁹⁾, Hiroshi Nakajima¹⁾

¹⁾Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, ²⁾Department of Human Mucosal Vaccinology, Chiba University Hospital, ³⁾Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa), Chiba University, Chiba, Japan, ⁴⁾Division of Mucosal Vaccines, International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ⁵⁾Department of Pediatric Dentistry, The University of Alabama at Birmingham, Birmingham AL, USA, ⁶⁾Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University, ⁷⁾Industry-Government-Academia Collaboration Promotion Headquarters, Wakayama Medical University, ⁸⁾Regulation of Host Defense Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, The University of Osaka, ⁹⁾Department of Molecular Virology, Research Institute for Microbial Diseases, The University of Osaka

WS27-16-P

The role of MG in gut-brain axis ~ A central regulator of colitis pathology?~

○ Wataru Shibata

Keio University School of Medicine

WS27-17-P

Monophosphoryl Lipid A Regulates Liver Macrophage Function and Exerts Rapid Protective Effects against Septic Shock

○ Ryohei Suematsu¹⁾, Hiroyuki Nakashima¹⁾, Bradley Kearney¹⁾, Kohei Yamada¹⁾, Kazuma Mori¹⁾, Azusa Kato^{1,2)}, Masafumi Saito¹⁾, Masahiro Nakashima¹⁾, Takeshi Ono¹⁾, Manabu Kinoshita¹⁾

¹⁾National Defense Medical College, ²⁾Saitama Medical University

WS27-18-P

FROUNT Deficiency Induces a Micro-Activated Macrophage Basal State with Elevated Negative Feedback

○ Etsuko Toda¹⁾, Yasuhiro Terasaki¹⁾, Akira Shimizu¹⁾, Kouji Matsushima²⁾, Yuya Terashima²⁾

¹⁾Nippon Medical School, ²⁾Tokyo University of Science

WS27-19-O/P

Distinct TAM Subset with Cross-Dressing Capability Determines the Bifurcation of Tumor Immunity

○ Kanako Shimizu¹⁾, A Sanpei¹⁾, Jun Nakabayashi²⁾, Yan Liu¹⁾, Jun Shinga¹⁾, An Nakazato¹⁾, Shin-ichiro Fujii^{1,3)}

¹⁾RIKEN, IMS, ²⁾Institute of Science Tokyo, ³⁾DMP, RIKEN

WS27-20-P

Sphingosine-1-phosphate lyase is a potential therapeutic target for acute and chronic inflammatory diseases

○ Fumiyuki Sasaki, Masumi Shimizu, Hinata Hirashima, Misaki Wakasugi, Tatsunori Kitahara, Moeko Uchida, Akihiro Nawata, Takamasa Akiyama, Rimpei Morita

Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan

WS27-21-P

Cross-dressing is enhanced by polyI:C

○ Yuzuki Yamamoto, Miyu Fujiwara, Ren Taniguchi, Kentaro Kishimoto, Masafumi Nakayama
Ritsumeikan University

WS27-22-P

Gut dysbiosis drives the impairment of oral tolerance mediated through mucosal dendritic cell dysfunction

○ Tomohiro Fukaya, Tomofumi Uto, Shuya Mitoma, Katsuaki Sato
Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki

WS27-23-P

Crucial role of dendritic cells in the generation of anti-tumor T-cell responses and immunogenic tumor microenvironment to suppress tumor development

○ Shuya Mitoma, Tomofumi Uto, Tomohiro Fukaya, Katsuaki Sato
Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki

WS27-24-P

BATF Regulates T cell Response via Dendritic Cell Function

○ Tomoko Asatsuma-Okumura, Ryuji Owada, Yoshiko Iwai
Nippon Medical School

WS27-25-P

Hu-PBL-hIL-4-Tg mice as contact dermatitis model mice induced by DNFB may contribute to the development of treatments for contact dermatitis

○ Ayako Hirota¹⁾, Shino Oshima²⁾, Mariko Miyazawa³⁾, Yuki Hoshino²⁾, Hitoshi Ishimoto³⁾, Takashi Shiina²⁾, Akiko Kanamori⁴⁾, Tomotaka Mabuchi¹⁾, Yoshie Kametani²⁾
¹⁾Department of Dermatology, Tokai University School of Medicine, ²⁾Department of Molecular Life Science, Tokai University School of Medicine, ³⁾Department of Obstetrics and Gynecology, Tokai University School of Medicine, ⁴⁾Department of Bioengineering, School of Engineering, Institute of Advanced Biosciences

WS27-26-P

Functional Regulation of Human Dendritic Cells through Control of Amino Acid Metabolism

○ Takumi Murayama¹⁾, Airi Negami¹⁾, Junya Yamasaki¹⁾, Junya Ohtake^{3,4)}, Hidemitsu Kitamura^{1,2,3,4)}
¹⁾Course of Biomedical Engineering, Graduate School of Life Sciences, Toyo University, ²⁾Department Biomedical Engineering, Faculty of Science and Engineering, Toyo University, ³⁾Research Facility Center, Asaka, Toyo University, ⁴⁾Research Center, Biomedical Engineering, Toyo University

WS27-27-P

Involvement of XCR1-positive dermal dendritic cells in the transport of skin self-antigen

○ Miya Yoshino, Koji Tokoyoda
Tottori University

WS27-28-P

Immunostimulatory activity of Heyndrickia coagulans SANK70258 targeting dendritic cells

○ Hotaka Okamura¹⁾, Niya Yamashita¹⁾, Shiori Suzuki¹⁾, Naoto Ito¹⁾, Masanori Aida²⁾, Ryouichi Yamada²⁾, Kazuki Nagata¹⁾, Chiharu Nishiyama¹⁾
¹⁾Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science, ²⁾Mitsubishi Chemical Corporation

WS27-29-P

Reduced Antigen-Presenting Cell Function Associated with Lysosomal Dysfunction in Older Adults

○ Mengqian Li, Kohei Kometani, Norihide Jo, Yoko Hamazaki
Department of Life Science Frontiers, Center for iPS Cell Research and Application (CiRA), Kyoto University

WS27-30-P

Molecular mechanisms of butyrate-induced development of conventional dendritic cells and increased expression of the Itga4 gene

○ Weiting Zhao, Kazuki Nagata, Risako Akiyama, Chiharu Nishiyama
Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science.

WS27-31-P

Generation of functional antigen-presenting cells from iPSCs for immunological applications

○ Tomoki Muramatsu, Yosuke Harada, Ittetsu Takahashi, Miki Fujikado, Waka Lin, Yuichi Eguchi
Biomedical Business Center, Ricoh Company, Ltd.

WS27-32-P

SIRP α promotes cDC2A survival by preventing Nr4a3 upregulation and the development of autoimmunity○ Yasuyuki Saito^{1,2}, Satomi Komori², Tania Afroj^{1,2}, Tomoko Takai², Takenori Kotani³, Yoji Murata³, Takashi Matozaki²¹Department of Immunology, Faculty of Medicine, Shimane University, ²Division of Bigosgnal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, ³Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine

WS27-33-P

A Novel mRNA Vaccine Formulation Elicits Anticancer Immunity through the Splenic Dendritic Cells○ Mahmoud A. Younis^{1,2,3}, Yusuke Sato^{1,2}, Hideyoshi Harashima^{1,2}¹Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan, ²Institute of Vaccine Research and Development (IVReD), Hokkaido University, Sapporo 001-0021, Japan, ³Faculty of Pharmacy, Assiut University, Assiut 71526, Egypt

WS27-34-O/P

Immunological characterization of neutrophils in proteasome subunit β -type 9 variant mouse○ Izumi Sasaki¹, Yuko Ishida², Shiori Kaji³, Takashi Kato⁴, Daisuke Okuzaki⁵, Hiroaki Hemmi⁶, Toshikazu Kondo², Tsuneyasu Kaisho¹¹Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, ²Department of Forensic Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama, 641-8509, Japan, ³Second Department of Internal Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, ⁴Department of Rheumatology and Clinical Immunology, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, ⁵Laboratory of Human Immunology (Single Cell Genomics), WPI Immunology Frontier Research Center, The University of Osaka, Osaka 565-0871, Japan, ⁶Laboratory of Immunology, Faculty of Veterinary Medicine, Okayama University of Science, Imabari, Ehime 794-8555, Japan

WS27-35-O/P

Alveolar neutrophil mitochondria promote pulmonary fibrosis via regulation of pro-fibrotic factors○ Yoshinari Nakatsuka¹, Atsuyasu Sato¹, Yutaka Hirayama¹, Kazuma Yoshida², Yohei Korogi¹, Shigeru Ashino¹, Masanori Matsumoto³, Tomohiro Handa⁴, Gabriel Nuñez^{5,6}, Toyohiro Hirai¹¹Department of Respiratory Medicine, Graduate School of Medicine, Kyoto University, ²Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, ³Department of Pathobiology, University of Illinois at Urbana-Champaign, ⁴Department of Advanced Medicine for Respiratory Failure, Graduate School of Medicine, Kyoto University, ⁵Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, ⁶Center for Infectious Disease Education and Research (CiDER), The University of Osaka

WS27-36-O/P

The expression and physiological roles of Mrgprb2/MRGPRX2○ Ayako Kaitani¹, Kumi Izawa¹, Tomoaki Ando¹, Akihisa Yoshikawa^{1,2}, Mayu Shinagawa¹, Mio Sasaki¹, Akie Maehara¹, Nobuhiro Nakano¹, Masahiro Nakamura², Ko Okumura¹, Jiro Kita¹¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²Department of Otorhinolaryngology, Juntendo University Graduate School of Medicine

WS27-37-O/P

Eosinophil-derived IL-27 promotes colon Th17 differentiation○ Jun Kasamatsu¹, Hiroki Yoshida², Katsuyuki Yu³, Elizabeth A Jacobsen⁵, Marco Colonna⁴, Hiromitsu Hara¹¹Kagoshima University, ²Saga University, ³Nagasaki University, ⁴Washington University in St. Louis, ⁵Mayo Clinic Arizona

WS27-38-P

Standardization and Implementation of PBMC Banking Using a Next-Generation Automated PBMC Isolation Device with an Electrode Tip○ Hiromitsu Tazawa¹, Osamu Kikuchi^{1,2}, Yuki Furuya¹, Yuko Matsuura¹, Miki Okita¹, Kazuhiro Nakamura⁴, Osamu Segawa⁴, Kazumi Sawagami⁵, Hideji Tajima⁵, Manabu Muto^{1,3}¹Clinical Bioresource Center, Kyoto University Hospital, ²Center for Cancer Immunotherapy and Immunobiology, Kyoto University, ³Medical Oncology, Kyoto University Hospital, ⁴Precision System Science Inc., ⁵Universal Bio Research Inc.

December 12

WS28 Bacterial, Fungal, and Parasitic Infections and Immunity

WS28-01-O/P

Neutrophils as Potential Effector Cells in Host Resistance to Tick Infestation○ Jiali Yan¹, Tetsuro Kobayashi², Maki Mizumura¹, Kayoko Yamaji³, Hirotaka Kanuka³, Hiroko Matsunaga⁴, Haruko Takeyama⁴, Kazuyo Moro^{1,2,5}¹Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, ²Laboratory for Innate Immune Systems, RIKEN-IMS, ³Department of Tropical Medicine, Jikei University School of Medicine, ⁴Biomolecular Engineering Laboratory, Waseda University, ⁵Laboratory for Innate Immune Systems, iFReC, The University of Osaka

WS28-02-P	<p>Attenuation of food allergy symptoms following <i>Sparganum proliferum</i> infection in a mouse model</p> <p>○ Akito Fujihira, Akina Ogamino, Taisei Kikuchi The University of Tokyo</p>
WS28-03-P	<p>Anisakis-specific IgE production is associated with gastric bacteria</p> <p>○ Chikako Shimokawa¹⁾, Tadashi Takeuchi²⁾, Hiroshi Ohno²⁾, Hajime Hisaeda¹⁾ ¹⁾National Institute of Infectious Diseases, ²⁾RIKEN Center for Integrative Medical Sciences (IMS)</p>
WS28-04-P	<p>Potential involvement of ILC2s in promoting parasite maturation and egg production in <i>Schistosoma mansoni</i></p> <p>○ Risa Nakamura^{1,2,3)}, Megumi Hamasaki^{1,2,3)}, Hideki Muto⁴⁾, Shinjiro Hamano^{1,2,3)} ¹⁾Department of Parasitology, Institute of Tropical Medicine (NEKKEN), Nagasaki University, ²⁾Nagasaki University Graduate School of Biomedical Sciences Doctoral Leadership Program, ³⁾The Joint Usage/Research Center on Tropical Disease, NEKKEN, Nagasaki University, ⁴⁾Biomedical Research Support Center (BRSC), Nagasaki University School of Medicine</p>
WS28-05-P	<p>Diminished Type 2 Immune Response with Aging Is Associated with Reduced Gut Microbiota Reactivity during Nematode Infection</p> <p>○ Motoko Morimoto¹⁾, Sota Tanaka¹⁾, Kyoko Jinguji¹⁾, Wakako Ikeda-Ohtsubo²⁾ ¹⁾Miyagi Univ., ²⁾Tohoku Univ.</p>
WS28-06-P	<p>miR-192 Improves Antibody Responses to PCV13 Vaccination in Aged Mice by Modulating Inflammaging</p> <p>○ Jinyu Zhao, Yang Ming Sheng, Atsushi Irie, Hiroyuki Oshiumi Dep Immunol, Grad Sch Med Sci, Kumamoto University</p>
WS28-07-P	<p>Dynamic Immune Cell Heterogeneity Across Progressive Stages of Human Dental Pulp Inflammation Revealed by Single-cell Multiomics</p> <p>○ Anunya Opasawatchai¹⁾, Chawisa Shinsomboon¹⁾, Richtana Pornsomboonsiri¹⁾, Akarawin Chowpradith¹⁾, Ravipa Nunngam¹⁾, Ponpan Matangkasombut²⁾, Varodom Charoensawan³⁾, Pornpoj Fuangtharnthip¹⁾ ¹⁾Faculty of Dentistry, Mahidol University, ²⁾Faculty of Science, Mahidol University, ³⁾Faculty of Medicine, Siriraj Hospital, Mahidol University</p>
WS28-08-P	<p>Prevotella intermedia modulates inflammatory cytokines via T9SS</p> <p>○ Poramed Onsoi, Tokuju Okano, Toshihiko Suzuki Institute of Science Tokyo</p>
WS28-09-P	<p>Chronic oral infection induces cognitive dysfunction by migrating IL-17A producing immune cells to the brain</p> <p>○ Sari Kishikawa^{1,2)}, Jun-ichi Nagao^{1,2)}, Kenji Toyonaga^{1,2)}, Aoba Iwanuma¹⁾, Kanae Negoro-Yasumatsu^{1,2)}, Sonoko Tasaki¹⁾, Satoru Iwai¹⁾, Yoshihiko Tanaka^{1,2)} ¹⁾Section of Infection Biology, Department of Functional Bioscience, Division of Biomedical Sciences, Fukuoka Dental College, ²⁾Oral Medicine Research Center, Fukuoka Dental College</p>
WS28-10-P	<p>Janus kinase inhibits inflammation in macrophages with oral bacterial infection</p> <p>○ Tokuju Okano, Toshihiko Suzuki Science Tokyo</p>
WS28-11-O/P	<p>Activation of Gsdmd by Gram-negative bacterial infection and its impact on the pathogenesis</p> <p>○ Hideki Hara Asahikawa Medical University</p>
WS28-12-P	<p>Salmonella enterica serovar Typhimurium T3SS-2 elicits ferroptosis in macrophages</p> <p>○ Takeshi Haneda¹⁾, Hirotaka Hiyoshi²⁾, Masahiro Ito¹⁾, Tsuyoshi Miki¹⁾, Yun-Gi Kim¹⁾ ¹⁾School of Pharmacy, Kitasato University, ²⁾Institute of Tropical Medicine, Nagasaki University</p>
WS28-13-O/P	<p>Comprehensive transcriptomic approaches reveal disturbance of the heterogeneity of host myeloid cells during <i>Salmonella</i> systemic infection</p> <p>○ Hirotaka Hiyoshi¹⁾, Mohamad Al Kadi²⁾, Toshio Kodama¹⁾, Andreas J. Baumler³⁾, Daisuke Okuzaki²⁾ ¹⁾Institute of Tropical Medicine, Nagasaki University, ²⁾WPI immunology Research Center, The University of Osaka, ³⁾Department of Medical Microbiology and Immunology, University of California at Davis</p>

WS28-14-O/P

Salmonella persists in splenic monocytes without induction of bactericidal activity

○ Uki Kimura¹⁾, Karen Saiki¹⁾, Nobuhiro Matsuyama¹⁾, Sei Kashima¹⁾, Akiko Takaya^{2,3)}, Koji Tokoyoda¹⁾

¹⁾Division of Immunology, Faculty of Medicine, Tottori University, Yonago, Japan, ²⁾Laboratory of Infection Control Science, Graduate School of Pharmaceutical Science, Chiba University, Chiba, Japan, ³⁾Medical Mycology Research Center, Chiba University, Chiba, Japan

WS28-15-P

PLA2G5 is a key driver of hemolysis and disease severity in sepsis

○ Michihiro Takahama^{1,2)}

¹⁾The University of Osaka, ²⁾The University of Chicago

WS28-16-P

Tuberculosis vaccine evaluation using a non-human primate model of co-infection with simian immunodeficiency virus and mycobacterium tuberculosis

○ Natsuko Yamakawa, Yasuhiro Yasutomi

National Institutes of Biomedical Innovation, Health and Nutrition

WS28-17-O/P

Identification of human T cells selectively recognizing non-tuberculous mycobacteria (NTM)

○ Nanami Kamata^{1,2,3)}, Yoshihiko Hoshino⁴⁾, Nagatoshi Fujiwara⁵⁾, Sho Yamasaki^{1,2,3,6)}

¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, ³⁾Center for Advanced Modalities and Drug Delivery system (CAMaD), The University of Osaka, ⁴⁾Department of Mycobacteriology, Leprosy Research Center, National Institute of Infectious Diseases, ⁵⁾Department of Food and Nutrition, Faculty of Contemporary Human Life Science, Tezukayama University, ⁶⁾Center for Infectious Disease Education and Research (CiDER), The University of Osaka

WS28-18-P

Comparative analysis of the host response to the fungal pathogen *Sporothrix brasiliensis* across different mice strains

○ Fabio Seiti Yamada Yoshikawa²⁾, Sandro Rogerio de Almeida¹⁾, Shinobu Saijo²⁾

¹⁾University of Sao Paulo, ²⁾Chiba University

WS28-19-O/P

Mucosal immune network of Th17 cells via gut-mouth axis enhance protection against oropharyngeal candidiasis

○ Jun-ichi Nagao^{1,2)}, Emi Kaji¹⁾, Sari Kishikawa^{1,2)}, Kenji Toyonaga^{1,2)}, Sonoko Tasaki¹⁾, Satoru Iwai¹⁾, Aoba Iwanuma¹⁾, Yoshihiko Tanaka^{1,2)}

¹⁾Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental College, ²⁾Oral Medicine Research Center, Fukuoka Dental College

WS28-20-P

Functional analysis of the signaling adaptor protein Card9 in *Candida auris* invasive infection

○ Kenji Toyonaga^{1,2)}, Sari Kishikawa^{1,2)}, Jun-ichi Nagao^{1,2)}, Aoba Iwanuma¹⁾, Satoru Iwai¹⁾, Arisa Aosaka¹⁾, Tomoko Nagai¹⁾, Masayuki Umemura³⁾, Sonoko Tasaki¹⁾, Kanae Negoro-Yasumatsu¹⁾, Yoshihiko Tanaka^{1,2)}

¹⁾Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental College, ²⁾Oral Medicine Research Center, Fukuoka Dental College, ³⁾Molecular Microbiology Group, Department of Infectious Diseases, Tropical Biosphere Research Center, and Department of Host Defense, Graduate School of Medicine, University of the Ryukyus

Awards Ceremony and Lectures

Awards Ceremony and Lectures

12月11日(木) Thursday, 11th December

各賞授賞式・受賞講演
Awards Ceremony and Lectures

第28回日本免疫学会賞授賞式 / 28th JSI Award Ceremony

第28回日本免疫学会賞受賞者
28th JSI Award Winner

「病原体感染やがん化による非自己化細胞と免疫系との相互作用解析」
“Analysis of Interactions Between Infection- and Cancer-Driven Non-Self Cells and the Immune System”
山本 雅裕 氏 (大阪大学 微生物病研究所 感染病態分野)
Dr. Masahiro Yamamoto, The University of Osaka

第12回日本免疫学会ヒト免疫研究賞授賞式 / 12th JSI Human Immunology Research Award Ceremony

第12回日本免疫学会ヒト免疫研究賞受賞者
12th JSI Human Immunology Research Award Winner

「腸内共生病原菌を標的としたヒト腸管免疫関連疾患の治療法の開発」
“Targeting Commensal Pathobionts for Innovative Therapies in Human Intestinal Immune Disorders”
植松 智 氏 (大阪公立大学大学院医学研究科 医学部ゲノム免疫学)
Dr. Satoshi Uematsu, Osaka Metropolitan University

第12回日本免疫学会女性免疫研究者賞授賞式 / 12th JSI Women Immunologist Award Ceremony

第12回日本免疫学会女性免疫研究者賞受賞者
12th JSI Women Immunologist Award Winner

「ヒト免疫細胞を微小環境に有する腫瘍モデルを用いたヒトがん免疫制御」
“Immunoregulation of human cancer using the tumor models containing human immune cells in the microenvironment”
幸谷 愛 氏 (大阪大学 微生物病研究所 感染腫瘍制御分野)
Dr. Ai Kotani, The University of Osaka

※各種授賞式に引き続き、受賞講演を行います。

*The above Award Lectures will be start following ceremonies.

第 20 回日本免疫学会研究奨励賞授賞式 / 20th JSI Young Investigator Award Ceremony

第 20 回日本免疫学会研究奨励賞受賞者（五十音順）

20th JSI Young Investigator Award Winners

「ウイルス感染症における免疫細胞応答の生体イメージング解析」

“In vivo imaging of cellular pathophysiology in respiratory virus-infected mouse lungs”

植木 紘史 氏（国立国際医療研究センター 国際ウイルス感染症研究センター）

Dr. Hiroshi Ueki, National Center for Global Health and Medicine

「RNA ウイルスの病態理解並びに、新規予防法の開発」

“Analysis of RNA virus pathogenicity and development of novel prevention methods”

浦木 隆太 氏（東京大学 国際高等研究所 新世代感染症センター）

Dr. Ryuta Uraki, The University of Tokyo

「炎症・線維化における多様な線維芽細胞サブセットが果たす役割の解析」

“The roles of diverse fibroblast subsets in inflammation and fibrosis”

津久井 達哉 氏（カリフォルニア大学 医学部）

Dr. Tatsuya Tsukui, University of California

「大規模ヒトオミクスデータ解析技術の開発および自己免疫疾患への応用」

“Leveraging Large-scale Human Omics Data for Autoimmune Diseases”

友藤 嘉彦 氏（ハーバード大学 医学部）

Dr. Yoshihiko Tomofuji, Harvard Medical School

※研究奨励賞受賞者の研究課題については、12月11日（木）17時5分からポスター発表をいたします。

*The above JSI Young Investigator Award, Winners' Posters Discussion will be started from 17:05 on 11th December.

International Immunology Outstanding Merit Award Ceremony

International Immunology Outstanding Merit Award for 2025 Winner

“Synchronized development of thymic eosinophils and thymocytes”

Dr. Ayami Ota, The University of Tokyo

若手免疫学研究推進事業 / Outstanding Young Immunology Researcher Award Winners Introduction

2025 年若手免疫学研究推進事業受賞者（五十音順）

Outstanding Young Immunology Researcher Award 2025Winners

「抗原提示細胞として“真に機能的な”単球由来樹状細胞の生体における意義の解明」

“Exploring the Roles of Authentic Monocyte-derived Dendritic Cells In Vivo”

小原 乃也 氏（京都大学白眉センター兼医生物学研究所）

Dr. Daiya Ohara, Kyoto University

「フロー定量 Mitophagy スコアを統合した骨髓腫進行予測モデル構築」

“Development of Flow Cytometry-Based Mitophagy Scoring System for Predicting Multiple Myeloma Progression”

小西 義延 氏（京都大学医学部附属病院 血液内科）

Dr. Yoshinobu Konishi, Kyoto University Hospital

「血球貪食症候群における生細胞貪食メカニズムとその病理的意義の解明」

“Investigation of the Pathological Impact of Live Cell-Engulfing Macrophages in Hemophagocytic Syndrome”

藤井 健太郎 氏（医薬基盤・健康・栄養研究所 創薬イメージングプロジェクト）

Dr. Kentaro Fujii, National Institutes of Biomedical Innovation, Health and Nutrition

若手女性研究者研究支援事業 / Outstanding Young Women Researcher Award Winners Introduction

2025 年若手女性研究者研究支援事業受賞者（五十音順）

Outstanding Young Women Researcher Award 2025Winners

「腸内微生物由来代謝物による G タンパク質共役型受容体活性化を介した腸管恒常性維持機構の解明」

“Investigating mechanisms of intestinal homeostasis mediated by microbiota-derived metabolite-GPCR signaling”

猪頭 英里 氏（大阪大学大学院医学系研究科 免疫制御学）

Dr. Eri Igashira, The University of Osaka

「骨転移巣特異的マクロファージによる免疫抑制機構の解明」

“Elucidation of the immunosuppressive functions of macrophages in bone metastasis”

橋本 恭子 氏（東京大学大学院医学系研究科 免疫学教室）

Dr. Kyoko Hashimoto, The University of Tokyo

「きぼう」プロジェクト 免疫学博士課程学生支援 採択者紹介 /
“Kibou Projects” Scholarship for Doctoral Students in Immunology Winners Introduction

2023 年度採択者（五十音順）

2023 Winners

「関節リウマチ炎症滑膜内における B 細胞応答の解明」

“Investigation of B cell responses in the synovium of rheumatoid arthritis”

赤嶺 綸子 氏（京都大学）

Ms. Rinko Akamine, Kyoto University

「新生児期の免疫異常と皮膚 dysbiosis が引き起こすアトピー性皮膚炎“発症起点”の解明」

“Elucidating the mechanism of atopic dermatitis triggered by neonatal skin dysbiosis and immune imbalance”

伊藤 朋香 氏（大阪大学）

Ms. Tomoka Ito, The University of Osaka

「脳神経細胞障害からの回復過程における内因性オピオイドの役割」

“Role of endogenous opioids in the recovery process from brain neuronal damage.”

川副 明生 氏（九州大学）

Ms. Mio Kawazoe, Kyushu University

「新規免疫制御因子の遺伝子変異を伴う先天性免疫異常症の病態解明」

“Elucidating the pathogenesis of inborn errors of immunity associated with genetic mutations of a novel immunoregulatory molecule”

喜枝 美月 氏（大阪大学）

Ms. Mizuki Kishi, The University of Osaka

「可溶型 CD155 の除去によるがん免疫抑制機構の解明」

“Elucidation of the role of soluble CD155 in tumor immunity”

木下 翔太 氏（筑波大学）

Mr. Shota Kinoshita, University of Tsukuba

「抗生物質寛容型細菌の免疫逃避機構の解明」

“Strategies of antibiotic tolerant bacteria for overcoming host immunity”

木村 宇輝 氏（鳥取大学）

Mr. Uki Kimura, Tottori University

「MHC クラス II による新規腸管免疫制御機構解明」

“Regulation of immune response in intestine by MHC class II molecules”

千菊 智也 氏（東京大学）

Mr. Tomoya Sengiku, The University of Tokyo

「自己炎症性疾患の特徴をもつ免疫介在性疾患の網羅的解析」

“Comprehensive analysis of immune-mediated diseases with characteristics of autoinflammatory disorders”

高澤 郁夫 氏（東京大学）

Mr. Ikuo Takazawa, The University of Tokyo

「ストレス造血における造血幹細胞における運命制御のメカニズムの解明」

“Elucidation of mechanisms that regulate hematopoietic stem cell fate decisions under stress hematopoiesis”

虎谷 和則 氏（京都大学）

Mr. Kazunori Toratani, Kyoto University

2024 年度採択者（五十音順）

2024 Winners

「小腸から胸腺へ移行した樹状細胞による新たな食物アレルギー回避機構の立証」

“Thymic dendritic cells involved in T cell selection migrate from the small intestine”

石井 寛斗 氏（横浜市立大学）

Mr. Hiroto Ishii, Yokohama City University

「腸管上皮 Microfold 細胞欠失による腸内細菌叢への影響と T2D モデルとの関連についての探索」

“Investigating the Impact of Intestinal Microfold Cells on Gut Microbiota Structure and Function Using Synthetic Bacterial Community”

伊藤 光希 氏（東京理科大学）

Ms. Mitsuki Itou, Tokyo University of Science

「腸管上皮細胞のレチノイド X 受容体を介したバリア機構の解明」

“Elucidation of Barrier Mechanisms Mediated by Retinoid X Receptor in Intestinal Epithelial Cells”

杉山 ひなた 氏（慶應義塾大学）

Ms. Hinata Sugiyama, Keio University

「抗ウイルス応答におけるゴルジ体ストレス応答の機能解析」

“Functional analysis of Golgi Stress Response (GSR) in antiviral response”

豊留 里奈 氏（奈良先端科学技術大学院大学）

Ms. Rina Toyodome, Nara Institute of Science and Technology

「RNA 構造を標的とした核酸医薬による抗腫瘍免疫制御法の開発」

“Development of antitumor immune control strategy by nucleic acid medicine targeting RNA structure.”

村岡 慎太郎 氏（京都大学）

Mr. Shintaro Muraoka, Kyoto University

「百寿者腸内細菌による新規ステロイド代謝経路と新規ステロイド化合物の解明とその免疫系への影響」

“Elucidation of a Novel Steroid Metabolism Pathway and Novel Steroid Compounds by Centenarians’ Gut Microbiota, and Their Impact on the Immune System”

渡部 靖郎 氏（東京大学）

Mr. Yasuo Watanabe, The University of Tokyo

「パイロトーシスを介した炎症を制御する新たな分子の機能解析」

“Functional analysis of a new molecule that regulates pyroptosis-induced inflammation”

生駒 健太 氏（大阪大学）

Mr. Kenta Ikoma, The University of Osaka

「難治性 B 細胞性急性リンパ性白血病の悪性化に関わる炎症性サイトカインの役割の解明」

“The role of inflammatory cytokines in the malignant transformation of refractory B-cell acute lymphoblastic leukemia”

鈴木 藍彩 氏（東京理科大学）

Ms. Aisa Suzuki, Tokyo University of Science

2025 年度採択者（五十音順）

2025 Winners

「ストローマ免疫学を基盤とした治療抵抗性関節リウマチの機序の解明と新規治療法の開発」

“Elucidation of the mechanisms underlying difficult-to-treat rheumatoid arthritis based on stromal immunology and the development of novel therapeutic strategies”

石原 啓成 氏（慶應義塾大学）

Mr. Hironari Ishihara, Keio University

「転写因子 RelB による胸腺髄質上皮細胞の分化制御機構と自己免疫抑制機構の解明」

“Dual function of RelB in medullary thymic epithelial cell differentiation required for preventing autoimmunity”

遠藤 凜 氏（横浜市立大学）

Ms. Rin Endo, Yokohama City University

「アダプター分子 MyD88 による記憶ヘルパー T 細胞の形成制御」

“MyD88 regulates the formation of memory T helper cells”

大木 こころ 氏（鳥取大学）

Ms. Kokoro Ohki, Tottori University

「制御性 T 細胞エピゲノム形成機構の解明」

“Elucidating the mechanism of epigenetic regulation in regulatory T cell differentiation in vitro”

長谷川 竜成 氏（東京大学）

Mr. Tatsumasa Hasegawa, The University of Tokyo

「新規免疫偏向性解析系を用いた LAG-3 による免疫制御機構の解明」

“Elucidating the role of LAG-3 in shaping the immunodominance hierarchies of T cell responses”

藤塚 偉利哉 氏（東京大学）

Mr. Iriya Fujitsuka, The University of Tokyo

「活性化免疫受容体 DNAM-1 に着目した炎症性腸疾患の病態解明と新規治療法の提案」

“Elucidation of the pathogenesis of inflammatory bowel disease focusing on the activation immune receptor DNAM-1 and proposal of novel therapeutic approaches”

井出 夏暉 氏（筑波大学）

Mr. Natsuki Ide, University of Tsukuba

「統合的な口腔 - 他・多臓器 - 関節連関メカニズムの解明」

“Elucidation of integrated mechanisms in the oral-joint axis”

鈴木 健大 氏 (大阪大学)

Mr. Takehiro Suzuki, The University of Osaka

「がんワクチンと一過性 Treg 除去法の併用による腫瘍治療と再発・転移予防」

“Combination of Cancer Vaccine and Transient Treg Depletion for Advanced Treatments of Cancer”

LYU QIAN 氏 (大阪大学)

Ms. Qian Lyu, The University of Osaka

※「きぼう」プロジェクト免疫学博士課程学生支援の採択者の研究課題については、12月11日(木)17時5分からポスター発表をいたします。

* The above “Kibou Projects” Scholarship for Doctoral Students in Immunology, Winners’ Poster Discussion will be started from 17:05 on 11th December.

**サマースクール 優秀ポスター賞 受賞者紹介 /
Summer School Outstanding Winners Introduction**

「制御性 T 細胞エフェクター・メモリー分化に伴う TCR レパトア選択原理の解明」

“Similar autoreactive regulatory T cell clones are selected during early ontogeny and expand under homeostatic perturbations”

塚崎 礼子 氏 (東京大学)

Ms. Reiko Tsukazaki, The University of Tokyo

「炎症応答制御に関与する新規環状 RNA の同定と機能解析」

“Identification and functional analysis of inflammation-regulated circular RNAs controlling cytokine expression in macrophages”

廣木 秀哉 氏 (奈良先端科学技術大学院大学)

Mr. Shuya Hiroki, Nara Institute of Science and Technology

※サマースクール優秀ポスター賞受賞者の研究課題については、12月11日(木)17時5分からポスター発表をいたします。

* The above Summer School Outstanding, Winners’ Posters Discussion will be started from 17:05 on 11th December.

Technical Seminar

Technical Seminar

11:40 ~ 12:40, Wednesday, December 10

T01 Technical Seminar 01 Room D: 407

Chairperson: Naoki Hosen (Department of Hematology and Oncology, Graduate School of Medicine, The University of Osaka)

T01 A novel platform for investigating the immunological landscape of the tumor microenvironment

Hiroyoshi Nishikawa Division of Cancer Immunology, Research Institute, National Cancer / Division of Cancer Immune Multicellular System Regulation, CCII, Graduate School of Medicine, Kyoto University / Department of Immunology, Nagoya University Graduate School of Medicine

Nippon Becton Dickinson Company, Ltd.

11:40 ~ 12:40, Wednesday, December 10

T02 Technical Seminar 02 Room E: 408

Chairperson: Ryo Shinnakasu (Ehime University, Advanced Research Support Center, Division of Medical Research Support, Section of Infectious Disease Research Support)

T02 Single B cell analysis of humoral immunity in vaccination and autoimmune disease

Takeshi Inoue Department of Molecular Systems Immunology, The UTOPIA Center, The University of Tokyo

TOMY DIGITAL BIOLOGY CO., LTD.

11:40 ~ 12:40, Thursday, December 11

T03 Technical Seminar 03 Room D: 407

Chairperson: Hiroshi Takayanagi (Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo)

T03 Can Artificial Stimulation in Neural Circuits Enable Treatment of Inflammatory Diseases?

Masaaki Murakami Institute for Genetic Medicine, Hokkaido University / Institute for Quantum Life science, QST / National Institute for Physiologic

Beckman Coulter K.K.

11:40 ~ 12:40, Thursday, December 11

T04 Technical Seminar 04 Room E: 408

T04 Deciphering the tissue cell ecosystem with multimodal analysis

Hiroyuki Yoshitomi Department of Immunology, Graduate School of Medicine, Kyoto University / Institute for the Advanced Study of Human Biology, Kyoto University

10x Genomics

11:40 ~ 12:40, Friday, December 12

T05 Technical Seminar 05 Room D: 407

T05 Human Blood Cell Analysis Using Imaging Flow Cytometry

Tomohiro Takeda Kansai University of Health Sciences Faculty of Health Science Department of Clinical Laboratory

Thermo Fisher Scientific

11:40 ~ 12:40, Friday, December 12

T06 Technical Seminar 06 Room E: 408

T06 Leveraging High-Parameter Flow Cytometry to Explore Immune Cell Dysregulation in STAT1 GOF Patients and Other Inborn Errors of Immunity

Cheng-Lung Ku Center for the Molecular and Clinical Immunology, Chang Gung University, Taiwan

Cytek Japan Corporation

11:40 ~ 12:40, Friday, December 12

T07 Technical Seminar 07 Room F: 409

Chairperson: **Hideki Ueno** (Department of Immunology, Graduate School of Medicine, Kyoto University)

T07 Integrative Understanding of Immune Cell Diversity, Interactions, and Spatial Context

Satoshi Sagara SCRUM Inc. / Element Biosciences

SCRUM Inc.

Clinical Seminar

Clinical Seminar

11:40 ~ 12:40, Wednesday, December 10

C01 Clinical Seminar 01 Room C: Small Hall

Chairperson: Hiroaki Niiri (Department of Medical Education, Graduate School of Medical Sciences, Kyushu University)

C01 Elucidating the Relationship Between Clinical Phenotypes of SLE and Type I Interferon

Keishi Fujio Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo

AstraZeneca K.K.

11:40 ~ 12:40, Wednesday, December 10

C02 Clinical Seminar 02 Room F: 409

Chairperson: Tomohiro Kurosaki (Laboratory for Lymphocyte Differentiation, RIKEN IMS)

C02 Pathogenic and regulatory roles of B cells in autoimmunity

Yoshihiro Baba Medical Institute of Bioregulation, Kyushu University

Otsuka Pharmaceutical Co., Ltd.

11:40 ~ 12:40, Thursday, December 11

C03 Clinical Seminar 03 Room B: Medium Hall

Chairperson: Kenji Kabashima (Department of Dermatology, Kyoto University Graduate School of Medicine)

C03-01 Is the evidence level of meta-analysis truly the highest?

Satoshi Morita Department of Biomedical Statistics and Bioinformatics, Kyoto University Graduate School of Medicine

C03-02 Management of pruritus in atopic dermatitis

Gyohei Egawa Department of Dermatology, Kagoshima University

Pfizer Japan Inc.

11:40 ~ 12:40, Thursday, December 11

C04 Clinical Seminar 04 Room F: 409

Chairperson: Naoki Hosen (Department of Hematology and Oncology, The University of Osaka Graduate School of Medicine)

C04-01 Targeting the neonatal Fc receptor in IgG-mediated autoimmune diseases

Peter Ulrichts argenx BVBA

C04-02 FcRn Blocker in Neurological Disorders: Clinical Implementation and the Role of Efgartigimod in gMG and CIDP

Motoki Fujimaki Department of Neurology, Faculty of Medicine, University of Tsukuba

argenx Japan K.K.

11:40 ~ 12:40, Friday, December 12

C05 Clinical Seminar 05 Room C: Small Hall

Chairperson: Koichi Amano (Department of Rheumatology and Clinical Immunology, Saitama Medical Center, Saitama Medical University)

C05 The Pathogenic Role of Eosinophils in Eosinophilic Granulomatosis with Polyangiitis

Naoto Tamura Department of Internal Medicine and Rheumatology, Juntendo University School of Medicine

AstraZeneca K.K.

Afternoon Seminar

Afternoon Seminar

12:50 ~ 13:50, Wednesday, December 10

A01 Afternoon Seminar 01 Room B: Medium Hall

Outstanding Young Women Researcher Award

Chairpersons: Kiyoshi Takeda (President of JSI / IFRcC, The University of Osaka)

Hiroshi Kawamoto (President of the 54th Annual Meeting of the JSI / Institute for Life and Medical Sciences, Kyoto University)

A01-01 Notch signaling regulates homeostasis and function of intestinal intraepithelial lymphocytes

Chieko Ishifune Department of Immunology and Parasitology, Tokushima University Graduate School of Medicine

A01-02 Role of B4galnt2-mediated glycosylation in the mucus barrier and gut homeostasis

Airi Ishibashi Department of Microbiology and Immunology, Graduate School of Medicine, The University of Osaka / Immunology Frontier Research Center: IFRcC

A01-03 Modulation of autoimmune diseases via autonomic nervous system dysregulation

Mirei Shirakashi Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University / Department of Clinical Neurology, Graduate School of Medicine, Kyoto University

TOMY DIGITAL BIOLOGY CO., LTD.

12:50 ~ 13:50, Thursday, December 11

Outstanding Young Immunology Researcher Award

A02 Afternoon Seminar 02 Room B: Medium Hall

Chairpersons: Kiyoshi Takeda (President of JSI / IFRcC, The University of Osaka)

Hiroshi Kawamoto (President of the 54th Annual Meeting of the JSI / Institute for Life and Medical Sciences, Kyoto University)

A02-01 Mechanistic Insights into ICI Resistance and Biomarker Discovery in Recurrent and Metastatic Head and Neck Squamous Cell Carcinoma

Genki Okumura National Cancer Center

A02-02 The tongue immune hub shapes tissue homeostasis and barrier integrity

Satoshi Koga Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka/ Laboratory for Innate Immune Systems, RIKEN-IMS / Laboratory for Innate Immune Systems, IFRcC, The University of Osaka

A02-03 Fibrosis-driven Pre-Metastatic Niche Formation in Colorectal Cancer Liver Metastasis: Clinical Evidence and Immunological Insights

Satoru Morita Department of Surgery, Keio University School of Medicine / Department of Pathology, Keio University School of Medicine

Nippon Becton Dickinson Company, Ltd.

Evening Seminar

Evening Seminar

18:30 ~ 19:30, Wednesday, December 10

E01 Evening Seminar 01 Room D: 407

Chairperson: Seitaro Nakagawa (Department of Dermatology, Graduate School of Medicine, The University of Osaka)

E01 Pathophysiology and Treatment of Atopic Dermatitis from the Perspective of Skin Function: Focus on Skin Barrier and Inflammation

Takashi Sakai Department of Dermatology, Faculty of Medicine, Oita University

Sanofi K.K. / Regeneron Japan KK

**Memorial Session for Dr. Fritz Melchers
(Fritz Melchers 先生を偲ぶ会)**

Fritz Melchers 先生を偲ぶ会

12月11日(木) 15:00～15:30

アクリエひめじ 2 階 Room A (大ホール)

司会：渡邊 武 (京都大学医生物学研究所 再生免疫学)

- | | |
|-------------|---|
| 15:00～15:05 | Fritz Melchers 先生のご紹介
渡邊 武 (京都大学医生物学研究所 再生免疫学) |
| 15:05～15:10 | ご挨拶
竹田 潔 (日本免疫学会 理事長、大阪大学免疫学フロンティア研究センター拠点長) |
| 15:10～15:15 | ご挨拶
岸本忠三 (大阪大学 名誉教授、大阪大学免疫学フロンティア研究センター特任教授) |
| 15:15～15:20 | Dr. Fritz Melchers との出会いと思い出
渡邊 武 (京都大学医生物学研究所 再生免疫学) |
| 15:20～15:30 | Fritz Melchers 先生と過ごしたベルリンでの年月：研究と人としての学び
河野洋平 (広島大学大学院医系科学研究科免疫学 准教授) |

— In Memory of Dr. Fritz Melchers —

岸本 忠三 特任教授
Prof. Tadamitsu Kishimoto

追悼 Dr. Fritz Melchers

IFReC 設立時から多大な貢献を頂いた世界的な免疫学者 Fritz Melchers 博士が、去る 2 月 24 日に亡くなりました。Melchers 博士の長年の友人である IFReC の岸本忠三特任教授から追悼のお言葉を頂きました。

本年 2025 年 2 月末に、ベルリンの Max-Planck 研究所にいる友人から、Fritz Melchers が亡くなったという知らせを受け茫然とした。彼とは 1980 年来の友人であると共に、免疫学で B リンパ球の研究分野も同じとしていた仲であった。

1980、1990 年代、私はよくヨーロッパに出かけたが、必ずバーゼルの免疫研究所に立ち寄った。彼は 1980 年から 20 年間、2000 年に、この研究所が閉鎖されるまで所長を務め、この研究所の発展と免疫学の発展に貢献した。私の多くの研究者仲間たちがここで研究した。

もう 1 人、私と同じ B リンパ球の研究仲間であった、NIH 国立衛生研究所の William Paul も 10 年前にこの世を去った。1980 年代、国際免疫学会が開かれた機会に Melchers、Paul と私の 3 人で、B リンパ球を活性化する分子に、順に BSF-1、2、... と名付けようとしたことを思い出す。

Fritz は、日本の免疫学会も支援し、Melchers' Travel Award として若い日本の研究者が外国に行く旅費の援助を行ってくれた。Fritz Melchers も William Paul も私より 3 才年上であったが、2 人ともいなくなるとは想像もしなかった。

誰でも 80 才後半になれば、人生を終わっていくのが普通であるが、やはり同じ年代のひとりとして、何とも言い難い寂しさを覚える。しかも 2 人とも、免疫学、特に B リンパ球の研究分野で後世に残る素晴らしい研究成果を挙げた。亡くなっても彼らの残した研究成果は、免疫学の教科書に残っていくであろう。

出典：大阪大学免疫学フロンティア研究センター 年次報告書より

In Memory of Fritz Melchers: A Visionary in Immunology

The International Union of Immunological Societies (IUIS) mourns the passing of Georg Friedrich (Fritz) Melchers, a distinguished immunologist and a former president of IUIS, who passed away on February 24, 2025. Fritz was not only a brilliant scientist but also a visionary leader in the field of immunology. His contributions to B cell biology, particularly his discovery of the “surrogate light chain,” have been fundamental to our understanding of antibody formation. As Director of the Basel Institute for Immunology (1980–2001), he fostered a thriving research environment that produced Nobel laureates and pioneering discoveries. Later, he continued his impactful work at the Max Planck Institute for Infection Biology in Berlin and as Leibniz Chair at the DRFZ, where he inspired generations of scientists.

Beyond his scientific achievements, Fritz was a passionate mentor, an exceptional organizer, and a key figure in shaping the global immunology community. He played a pivotal role in the 7th International Congress on Immunology in Berlin in 1989 and contributed to numerous scientific advisory boards and academies. As a founding figure of the DRFZ, he championed an open and collaborative research culture that continues to influence immunology today. His legacy is one of deep scientific curiosity, dedication, and excellence, and he will be remembered as both a pioneer and a role model for the immunologists of the future.

出典：IUIS News より

日本免疫学会からのお知らせ

特定非営利活動法人日本免疫学会からのお知らせ

1. 学会のホームページアドレス

日本免疫学会から会員の皆様へのお知らせは、ホームページを通じて行っておりますので、随時ご覧ください。

ホームページアドレス： <https://www.jsi-men-eki.org/>

2. 会員への電子メールによる情報配信について

日本免疫学会では、電子メールにて、会員の皆様への緊急なお知らせやお願いを配信しております。未だメールアドレスを会員データベースに登録されていない方は、至急会員専用ページ (https://www.men-eki.org/meneki_web/jsp/welcome.html) よりご登録いただくか、学会事務局 (info@meneki.or.jp) へご連絡ください。

3. 会費納入について

本学会は、10月1日より、新年度（2026年度＜2025年10月1日～2026年9月30日＞）となりました。新年度の会費は、学会事務局より送付いたしました「年会費用振替用紙」にてお振込みいただくか、会員専用ページ (https://www.men-eki.org/meneki_web/jsp/welcome.html) よりクレジットカードによる会費決済をおこなえますので、より多くの会員の皆様にご利用をお願い申し上げます。クレジットカード決済の際に、年会費と併せて寄附金を納付いただける場合に関し、クレジットカード手数料は無料（全額学会負担）となります。

新規入会をご希望の方は、学会ホームページ「入会申込」のボタンより、オンラインで手続きをお願いいたします。

4. 2026年度 特定非営利活動法人日本免疫学会役員（各五十音順）

理事長：竹田 潔	(2026年12月31日迄)
理事：荒瀬 尚、石井 健、樗木俊聡、大野博司、渋谷和子、新藏礼子、竹内 理	(2026年12月31日迄)
石井 優、反町典子、長谷耕二、堀 昌平、三宅健介、安友康二、山崎 晶	(2028年12月31日迄)
監事：黒崎知博、吉村昭彦	(2026年12月31日迄)

5. 日本免疫学会へのご寄附のお願い

皆様のご協力のお蔭で、本学会は2016年11月7日をもちまして、認定特定非営利活動法人として本認定されましたが、本認定期間におきましても、より多くの方々（毎年100名以上）からの寄附があることが認定継続の要件となっております。

ご存じのとおり、本学会は、2005年度のNPO法人化を機に、社会貢献活動にも積極的に取り組み、「免疫ふしぎ未来」をはじめとして、一般社会に対し、より広く免疫学の魅力と重要性をアピールする活動を広げ、免疫研究への一層の理解と、啓蒙に努めております。

その一方で、会員数の減少や近年の物価高騰等により、実質的な学会資産の減少が続いており、これまで、各種事業の見直し等、学会として対応策を講じてまいりましたが、健全な学会運営をとりまく環境は依然厳しい状況です。つきましては、今後、社会へのより一層の貢献のために、各種事業による免疫学の普及啓発事業等の活動をさらに発展させ、本学会の財政を安定させるためにも、より多くの皆様からの寄附を募集いたします。

寄附のお申し込みの詳細につきましては、本学会ホームページ、ご寄附のお願い (<https://www.jsi-men-eki.org/kifu/>) をご覧ください。クレジットカードでのお支払いも可能です。また、会員専用ページ (https://www.men-eki.org/meneki_web/jsp/welcome.html) より、年会費と併せて寄附金を納付いただければ、クレジットカード決済手数料は無料（全額学会負担）となりますので、本学会活動にご理解とご賛同をいただき、ご支援・ご協力をいただければ幸いです。

なお、本学会の主たる目的である業務に係る寄附金は、個人・法人ともに税法上の優遇措置が与えられます。ご不明な点等ありましたら、下記の学会事務局までお問い合わせください。

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Author Index

○ : Presenter

A

A. Soltan, Mohamed

Abe, Chiaki WS19-15-O/P
 Abe, Hiroshi WS27-12-P
 Abe, Kuniya WS25-30-P
 Abe, Saori WS24-16-P
 Adachi, Takahiro WS25-01-P
 Adachi, Takumi WS13-07-O/P
 Adachi, Yu WS21-10-P
 Adachi, Yu WS11-10-O/P
 Adachi, Yu WS20-13-O/P
 Afroj, Tania WS02-03-O/P
 Agata, Yasutoshi WS27-32-P
 Agata, Yasutoshi WS08-03-O/P
 Agata, Yasutoshi WS23-16-O/P
 Agbove, Martin WS10-08-P
 Ahmad, Alaa WS16-12-P
 Aiba, Setsuya WS05-02-P
 Aiba, Yoshihiro WS18-06-O/P
 Aida, Masanori WS27-28-P
 Ainai, Akira WS20-13-O/P
 Akagi, Arisa WS14-06-O/P
 Akahoshi, Tomohiro WS20-09-P
 Akaike, Takaaki WS18-01-P
 Akaiwa, Naruki WS16-17-P
 Akamatsu, Asuka WS26-08-O/P
 Akamatsu, Hirohiko WS11-01-O/P
 Akasaki, Yukio WS08-07-O/P
 Akashi-Takamura, Sachiko WS06-12-P
 Akashi-Takamura, Sachiko WS06-14-P
 Akashi-Takamura, Sachiko WS07-06-O/P
 Akashi-Takamura, Sachiko WS12-14-P
 Akashi-Takamura, Sachiko WS19-08-P
 Akatsu, Chizuru WS06-04-P
 Aki, Daisuke WS18-07-P
 Akimoto, Yuki WS20-16-P
 Akita, Risa WS17-09-P
 Akiyama, Genta WS24-17-P
 Akiyama, Nobuko WS07-04-O/P
 Akiyama, Nobuko WS07-05-O/P
 Akiyama, Risako WS27-30-P
 Akiyama, Taishin WS07-04-O/P
 Akiyama, Taishin WS07-05-O/P
 Akiyama, Takamasa WS27-20-P
 Akiyoshi, Sayaka WS05-09-P
 Akizuki, Shuji WS25-08-P
 Akuzawa, Daichi WS04-16-P
 Akuzawa, Daichi WS20-19-P
 Al Kadi, Mohamad WS28-13-O/P
 Ali, Tanveer WS27-14-P
 Amagiri, Nesta WS18-26-P
 Amaishi, Yasunori WS23-12-P
 Amaishi, Yasunori WS23-19-P
 Amano, Eiichiro WS25-10-P
 An, Saki WS01-03-O/P
 Anamizu, Hiromitsu WS11-05-P

Andiappan, Anand Kumar

Andini, Tatum WS26-11-P
 Andini, Tatum WS27-10-P
 Ando, Hidehiro WS19-08-P
 Ando, Sae WS22-13-P
 Ando, Shino WS07-13-P
 Ando, Shino WS17-11-P
 Ando, Shino WS17-12-P
 Ando, Tomoaki WS24-04-O/P
 Ando, Tomoaki WS24-08-O/P
 Ando, Tomoaki WS27-36-O/P
 Ando, Tomoaki WS05-18-P
 Ando, Yukie WS02-13-P
 Andrews, Sophie WS09-22-P
 Andrews, Sophie WS20-15-P
 Ano, Tomoko WS04-14-O/P
 Ano, Tomoko WS26-05-P
 Anzai, Ruka WS21-14-P
 Anzai, Takahiro WS09-13-P
 Anzurez, Alitzel WS20-11-O/P
 Aoi, Takashi OT11
 Aoki, Junichi WS20-05-P
 Aoki, Junichi WS20-30-P
 Aoki, Junken WS05-11-P
 Aoki, Reoka WS22-11-P
 Aoki, Takahiro WS23-18-O/P
 Aosaka, Arisa WS28-20-P
 Aoyagi, Ryuichi WS08-06-O/P
 Aoyama, Hidefumi WS09-16-P
 Aoyama, Reika WS05-12-O/P
 Aoyama, Taeko WS19-05-P
 Appay, Victor WS04-04
 Arai, Fujimi WS05-15-P
 Arai, Satoko WS12-11-O/P
 Araki, Akemi WS09-08-P
 Araki, Kimi WS01-10-P
 Arano, Takahiro WS15-18-O/P
 Arase, Hisashi WS09-02
 Arase, Hisashi WS07-07-O/P
 Arase, Noriko WS16-05-O/P
 Arima, Masafumi WS23-16-O/P
 Arima, Masafumi WS25-03-O/P
 Arima, Masafumi WS25-14-O/P
 Arima, Masafumi WS04-04-O/P
 Arima, Masafumi WS25-11-O/P
 Arima, Masafumi WS04-11-P
 Arima, Masafumi WS11-01-O/P
 Arita, Michitsune WS10-03-O/P
 Ariyasu, Toshio WS16-18-P
 Asa, Minoru WS01-06-O/P
 Asa, Minoru WS01-13-P
 Asada, Nariaki WS25-13-O/P
 Asahara, Haruyasu WS27-06-P
 Asahi, Toru WS03-12-O/P
 Asahi, Toru WS12-06-P
 Asahina, Ryota S12-01
 Asahina, Ryota WS05-06-O/P
 Asahina, Ryota WS05-07-O/P
 Asako, Rinya WS17-13-P

Asami, Natsuki WS22-11-P
 Asano, Masatake WS06-04-P
 Asano, Yoshihide WS05-02-P
 Asanuma, Daisuke WS05-03-P
 Asao, Hironobu WS09-08-P
 Asashima, Hiromitsu WS04-02-O/P
 Asashima, Hiromitsu WS04-10-P
 Asashima, Hiromitsu WS24-16-P
 Asashima, Hiromitsu WS25-01-P
 Asashima, Hiromitsu WS25-02-O/P
 Asatsuma-Okumura, Tomoko WS03-10-P
 Asatsuma-Okumura, Tomoko WS18-18-P
 Asatsuma-Okumura, Tomoko WS27-24-P
 Ashida, Shinji WS18-05-P
 Ashimine, Satoshi WS07-06-O/P
 Ashino, Shigeru WS27-35-O/P
 Aso, Shogo WS16-06-O/P
 Atagi, Katsuhiko WS25-14-O/P
 Atsumi, Tatsuya WS11-17-O/P
 Awata, Natsumi WS18-26-P
 Awong, Geneve WS15-19-O/P
 Azami, Yui WS18-11-P
 Azuma, Haruka WS20-15-P

B

Baba, Hiroyuki WS04-08-P
 Baba, Naoya WS23-11-O/P
 Baba, Nobuyasu WS25-26-P
 Baba, Shigenori WS15-18-O/P
 Baba, Yoshihiro WS06-03-O/P
 Baba, Yoshihiro WS13-06-P
 Baba, Yoshihiro WS13-08-P
 Baba, Yoshihiro WS14-04-O/P
 Baba, Yoshihiro WS25-11-P
 Baba, Yoshihiro WS25-11-P
 Baba, Yoshihiro WS25-11-P
 Bamba, Yoshiyo WS24-05-O/P
 Bando, Kanan WS19-14-P
 Bando, Toshiaki WS04-16-P
 Bando, Toshiaki WS18-25-P
 Bando, Toshiaki WS20-19-P
 Banno, Mai WS24-13-P
 Basak, Bristy WS06-14-P
 Basak, Bristy WS12-14-P
 Baumler, Andreas J. WS28-13-O/P
 Benoist, Christophe S10-02
 Bezbradica, Jelena S15-02
 Bezbradica, Jelena WS19-06-P
 Bhattacharya, Abhisek S01-05
 Biswas, Mrityunjoy WS06-14-P
 Blyth, Benjamin WS10-07-P
 Bo Bo Aung, Phyto WS27-06-P
 Boonmee, Atsadam WS02-11-O/P
 Borrow, Persephone WS20-09-P
 Bradley, Kearney M WS19-16-P

Braun, David WS09-02-P
 Brockmann, Leonie WS12-03-O/P
 Burcin, Ekser WS07-06-O/P

C

Cai, Ting WS03-03-O/P
 Cai, Ting WS22-02-O/P
 Cai, Zimeng WS08-02-O/P
 Casanova, Jean-Laurent WS12-16-O/P
 Chamoto, Kenji WS09-11-O/P
 Chamoto, Kenji WS09-14-O/P
 Chamoto, Kenji WS09-16-P
 Chamoto, Kenji WS09-20-P
 Chamoto, Kenji WS14-12-P
 Chamoto, Kenji WS15-15-O/P
 Chamoto, Kenji WS16-08-O/P
 Chan, Ben Chung-Lap WS09-17-P
 Chan, Yi-Hao WS12-16-O/P
 Chang, Jessica WS22-14-P
 Chang, Margaret WS15-07-O/P
 Charoensawan, Varodom WS28-07-P
 Cheah, Wei Jie WS01-17-P
 Chen, Hsin-Hsin WS13-11-P
 Chen, Hsin-Wei WS02-15-P
 Chen, Jinghao WS18-16-O/P
 Chen, Mei-Yu WS02-15-P
 Chen, Ming-Yu WS13-11-P
 Chen, Xintong WS17-02-O/P
 Cherry, Sara WS08-04
 Chiang, Chen-Yi WS02-15-P
 Chikata, Takayuki WS20-07-O/P
 Chikata, Takayuki WS20-09-P
 Chompoo Wong, Rajit WS18-20-P
 Chong, Joni WS26-11-P
 Chowpradith, Akarawin WS28-07-P
 Chua, Celine WS01-09-P
 Chua, Celine WS20-14-P
 Chua, Celine WS20-20-P
 Chuang, Yu-Ming WS08-05-O/P
 Chujo, Takeshi WS25-07-P
 Chwee, Jyh Yun WS14-11-P
 Chyuan, I-Tsu WS01-14-P
 Coban, Cevayir WS15-01
 Coban, Cevayir WS11-15-O/P
 Cohen, Michael WS23-06-P
 Colli, Erin WS03-02-P
 Colonna, Marco WS27-37-O/P
 Common, John WS26-11-P
 Cong, Tian WS14-08-P
 Criscitiello, Mike WS05-03

D

D'Alessandro-Gabazza, Corina WS23-13-P
D. Pfister, Thomas WS14-11-P
Davis, Simon WS14-08-P
de Almeida, Sandro Rogerio WS28-18-P
Delghandi, Sara ○WS14-12-P
Denda, Tamami WS25-12-P
Deng, Xi WS26-18-P
Dergun, Stanislav WS23-03-O/P
Dewi Kumara Wati, Ketut WS25-28-P
Di Bartolomeo, Anna WS03-02-P
DiCarlo, Jennifer S01-05
Diez, Diego WS15-05-O/P
Dijkstra, Johannes M. WS01-08-P
Dohi, Teruyuki WS27-13-O/P
Domae, Eisuke ○WS26-01-P
Doris Narki, Tetteh WS10-08-P
Dosho, Sakiko S14-03
Dotake, Yoichi WS26-09-P
Downs, Isaac WS16-10-O/P
Dwiyan, Luckman Bagas ○WS26-12-O/P

E

Eapen, Merrin Mary WS03-02-P
Ebihara, Nobuyuki WS05-18-P
WS24-08-O/P
Ebihara, Takashi WS17-06-O/P
Ebihara, Takeshi WS15-10-O/P
Ebina, Futaro WS09-16-P
Ebina, Isao WS13-03-P
Ebina-Shibuya, Riisa WS05-02-P
Eda, Hiro, Ryuya ○WS25-21-O/P
Egawa, Gyohei WS05-06-O/P
WS11-06-P
WS15-11-P
○C03-02
○WS19-12-O/P
Eguchi, Yuichi WS27-31-P
Ehara, Shunki WS17-09-P
Ejima, Shin WS22-15-P
Ekronarongchai, Supanuch WS11-12-P
Endo, Takeru ○WS22-08-P
Endo, Yukihiro WS02-04-O/P
○WS10-02-O/P
WS15-22-O/P
Endo, Yusuke WS22-08-P
WS22-17-P
WS26-14-O/P
Engesser, Jonas WS25-13-O/P
Enkhbaatar, Uyanga ○WS24-09-P
Eren, Remzi Onur WS26-16-O/P
Esashi, Eiji WS02-18-P
Eshima, Koji WS08-10-P
Etori, Keishi ○WS27-15-P

F

Fan, Yixian WS07-09-P
Fergusson, Joannah WS19-06-P
Fischer, Fabian WS19-06-P
Fridman, Valeria WS04-14-O/P
○WS26-05-P
Fu, Guotong ○WS22-03-O/P
Fuangtharnthip, Pornpoj WS28-07-P
Fuchigami, Hirobumi WS09-13-P
Fuchimukai, Akene WS17-06-O/P
Fuchita, Hikaru WS24-11-P
Fujihashi, Kohtaro WS05-15-P
WS26-19-P
WS27-15-P
Fujihira, Akito ○WS28-02-P
Fujii, Chihiro WS18-05-P
Fujii, Kentaro WS27-04-O/P
Fujii, Shin-ichiro WS20-08-P
WS20-23-P
WS27-19-O/P
Fujii, Wataru WS04-11-P
Fujikado, Miki WS27-31-P
Fujimaki, Motoki ○C04-02
Fujimori, Daisuke WS13-04-O/P
Fujimoto, Manabu WS05-12-O/P
WS05-13-O/P
WS25-14-O/P
Fujinami, Taisei WS02-12-P
Fujino, Masayuki WS07-09-P
Fujio, Keishi WS04-03-O/P
WS25-23-O/P
Fujioka, Naoto ○WS15-19-O/P
Fujisawa, Masahiro WS23-08-O/P
Fujisawa, Masayoshi WS09-09-P
Fujisawa, Sotaro ○WS08-11-P
WS08-13-P
WS22-16-P
Fujishiro, Maki ○WS25-05-P
WS25-06-P
Fujita, Satoshi WS17-01-O/P
Fujita, Shigeru WS12-13-O/P
Fujitani, Nanami WS19-10-P
Fujiu, Katsuhito WS05-03-P
WS27-09-P
Fujiwara, Miyu WS27-21-P
Fujiwara, Nagatoshi WS28-17-O/P
Fukawa, Yuki WS25-17-P
Fukawa, Yuuki WS25-15-P
Fukaya, Tomohiro WS02-06-P
○WS27-22-P
WS27-23-P
Fukuchi, Tomokazu WS24-07-O/P
Fukui, Chihiro WS01-05-O/P
Fukui, Ryutaro WS02-14-O/P
○WS18-21-P
WS19-19-O/P
Fukui, Takuma WS26-10-O/P
Fukui, Yoshinori WS05-09-P
WS14-02-O/P
Fukui, Yuzu WS20-02-P
Fukui-Miyazaki, Aya ○WS14-10-P
Fukunaga, Junichi WS23-10-P
Fukunaga, Koichi ○S12-04
Fukushima, Yuki ○WS21-15-O/P
Fukuyama, Hidehiro WS06-11-O/P
Funakoshi, Yudai ○WS16-04-P

Funayama, Ryo WS13-10-O/P
Furihata, Kaoru WS16-07-O/P
Furukawa, Atsushi WS16-17-P
WS17-08-O/P
WS17-16-P
WS17-17-P
Furukawa, Ryutaro WS03-13-O/P
WS16-11-O/P
WS20-03-P
○WS20-18-P
WS27-07-P
Furukawa, Yoichi WS19-19-O/P
Furusawa, Yukihiro WS12-01-P
WS12-02-P
WS19-05-P
WS22-12-P
Furusawa-Nishii, Emi WS08-09-P
Furutani-Seiki, Makoto WS01-05-O/P
Furuya, Genta WS12-04-O/P
WS18-13-P
○WS21-09-O/P
WS21-19-P
Furuya, Yuki WS27-38-P
Fusagawa, Minami WS16-03-P
Fushimi, Mone ○WS11-08-P

G

Gabazza, Corina WS04-14-O/P
WS26-05-P
Gabazza, Esteban WS04-14-O/P
WS23-13-P
WS26-05-P
Gao, Feng ○WS22-11-P
Gao, Peng WS12-04-O/P
WS21-09-O/P
Gao, Tong WS09-09-P
○WS23-08-O/P
Gaowa, Arong ○WS21-02-P
Gatanaga, Hiroyuki WS20-09-P
George, Jacob WS03-02-P
Ginhoux, Florent ○S13-04
Ginsberg, Pauline WS25-13-O/P
Goronzy, Jorg ○S04-01
Goto, Kana ○WS12-01-P
Goto, Motohito WS23-05-P
Gou, Qiao ○WS09-04-O/P
Goya, Chihiro ○WS22-02-O/P
Gruta, Nicole La ○S06-03
Guo, Haochen ○WS09-03-O/P
Guo, Ziyi WS12-13-O/P
Gwon, Soontae WS23-14-P

H

Habibah, Ulil Albab ○WS18-15-P
Habu, Sonoko WS07-12-P
Habuchi, Tomonori WS16-04-P
Hachimura, Satoshi WS24-05-O/P
Haga, Hironori WS18-25-P
Haga, Yuya WS27-03-P
○WS27-06-P
Hagiwara, Naho WS05-03-P
Hagiwara, Yukitomo ○WS25-16-P

Hahn, Maryrose WS15-07-O/P
Haku, Yasuharu WS09-11-O/P
WS15-15-O/P
Hamada, Hiromichi WS15-22-O/P
Hamada, Michito WS03-05-O/P
Hamada, Motochika ○WS11-16-O/P
Hamada, Yusaku WS11-07-P
Hamamichi, Shusei WS18-19-P
Hamana, Hiroshi WS20-10-O/P
Hamano, Shinjiro WS28-04-P
Hamasaki, Megumi WS28-04-P
Hamatani, Mio WS18-05-P
Hamazaki, Yoko ○S04-05
WS08-18-P
WS20-28-P
WS27-29-P
○WS23-15-P
Han, Jia WS14-06-O/P
Hanakawa, Sho WS17-07-O/P
WS26-01-P
Hanaoka, Mariko WS12-17-P
Hanayama, Rikinari WS14-01-O/P
WS22-07-O/P
○WS23-05-P
WS27-12-P
Handa, Mariko WS27-35-O/P
Handa, Tomohiro ○WS28-12-P
Haneda, Takeshi WS03-13-O/P
Hara, Atsushi WS03-14-O/P
WS16-11-O/P
○WS20-03-P
WS20-18-P
WS27-07-P
WS26-03-P
○WS28-11-O/P
WS11-06-P
WS27-37-O/P
Hara, Takahiko WS01-03-O/P
WS02-18-P
Harada, Junji S06-04
○WS22-09-P
WS02-16-O/P
Harada, Mamoru WS02-12-P
Harada, Michishige ○WS18-11-P
Harada, Yohsuke WS22-13-P
○WS15-20-O/P
WS24-13-P
WS27-31-P
Harashima, Hideyoshi WS27-33-P
Harigae, Hideo WS05-04-O/P
Harschnitz, Oliver WS12-16-O/P
Hasan, Shakir WS23-06-P
Hase, Kanon WS01-02-O/P
Hase, Koji WS05-14-O/P
WS21-12-O/P
WS02-18-P
Hasebe, Manaka WS04-06-P
Hasebe, Rie WS11-17-O/P
WS04-11-P
Hasegawa, Anna WS11-04-P
Hasegawa, Hideaki WS15-22-O/P
Hasegawa, Ichita WS11-01-O/P
Hasegawa, Seiji ○S04-03
WS08-03-O/P
WS01-09-P
WS20-14-P

	WS20-20-P	Hirai, Toyohiro	WS27-35-O/P	Hoshiya, Yoshimichi	S14-03	Ikegami, Taku	WS26-14-O/P
Hashimoto, Ari	WS11-17-O/P	Hiraiide, Kyoga	WS18-01-P		WS14-07-O/P	Ikeuchi, Hiroki	WS21-18-P
Hashimoto, Mayuko		Hirakawa, Mayumi	WS03-08-O/P	Hosokawa, Hiroyuki	WS10-01-O/P	Ikutani, Masashi	WS17-14-P
	WS21-03-O/P	Hirano, Lisa	WS03-08-O/P	Hosokawa, Takanatsu			WS18-23-P
Hashimoto, Ryuji	WS01-20-P	Hirao, Kengo	WS20-15-P		WS14-04-O/P	Imabayashi, Keisuke	WS13-06-P
Hashimoto, Shigeru	WS11-17-O/P	Hirasawa, Rui	WS15-03-O/P	Hosoki, Haruka	WS03-12-O/P		WS25-11-P
Hashimoto, Shinichi	WS16-14-P	Hirashima, Hinata	WS27-20-P		WS12-06-P	Imafuku, Tadashi	WS16-14-P
	WS18-08-O/P	Hirata, Akane	WS09-18-P	Hosomi, Koji	WS18-09-O/P	Imagawa, Ryotaro	WS09-14-O/P
	WS26-07-O/P	Hirata, Hirokuni	WS04-11-P	Hosono, Akira	WS24-19-P	Imai, Shota	WS14-01-O/P
Hashimoto, Takayuki	WS09-16-P	Hirata, Takako	WS18-22-P	Hosoya, Tadashi	WS04-08-P		WS22-07-O/P
Hasuo, Hideaki	WS25-04-P	Hirayama, Yuki	WS05-16-O/P	Howell, David	WS14-11-P	Imami, Koshi	WS23-01-P
Hata, Akitaka	WS13-13-O/P	Hirayama, Yutaka	WS27-35-O/P	Hsieh, Ming-Shu	WS02-15-P	Imamura, Takeshi	WS18-19-P
Hata, Hikaru	WS06-11-O/P	Hirayasu, Kouyuki	WS12-17-P	Hsu, Ping-Ning	WS01-14-P	Imano, Natsumi	WS08-14-P
Hatai, Shunya	WS18-09-O/P	Hirohashi, Yoshihiko	WS03-01	Hu, Chewei	WS14-11-P		WS09-15-O/P
Hatanaka, Keiko	WS04-11-P		WS16-03-P	Hu, Xin	WS07-09-P	Impey, Gary	WS15-19-O/P
Hatano, Masahiko	WS04-11-P	Hiroki, Shuya	WS19-07-O/P	Hu, Zheyu	WS24-10-P	Inaba, Toshiya	WS25-20-P
Hatano, Shinya	WS26-06-P	Hirose, Mika	WS01-06-O/P	Huang, Ming-Hsi	WS02-15-P	Ino, Hajime	WS19-22-P
Hatano, Taku	WS08-09-P		WS01-13-P	Huang, Min-Syuan	WS20-25-P	Inohara, Naohiro	WS05-12-O/P
Hatazawa, Sara	WS02-13-P	Hirose, Shuichi	WS16-18-P	Huang, Possu	S11-05	Inomata, Takenori	WS13-07-O/P
	WS09-22-P	Hirota, Ayako	WS27-25-P	Huang, Xuhao	WS18-14-O/P	Inoue, Akiko	WS25-19-P
Hattori, Ann	WS01-20-P	Hirota, Keiji	OT13	Huisman, Brooke	S10-02	Inoue, Chisa	WS04-14-O/P
Hattori, Fumiyuki	WS25-04-P		WS04-01-O/P	Huo, Chenyu	WS09-21-P		WS26-05-P
Hattori, Kunihiro	WS13-03-P		WS05-04-O/P	Huseby, Eric	S09-04	Inoue, Emi	WS01-12-P
Hattori, Nobutaka	WS18-04-O/P		WS11-18-O/P	Huynh, Hung	WS22-20-P	Inoue, Hiromasa	WS26-09-P
Hattori-Muroi, Kisara	WS21-12-O/P	Hirose, Kenichiro	WS14-02-O/P	Hyodo, Susumu	WS09-07-O/P	Inoue, Kimiko	WS24-09-P
Hayakawa, Kunihiro	WS25-05-P	Hisaeda, Hajime	WS28-03-P			Inoue, Mariko	WS11-21-P
	WS25-06-P	Hisahara, Shin	WS15-14-O/P			Inoue, Takeshi	T02
Hayakawa, Yoshihiro	WS02-05-P	Hisatome, Ichiro	WS26-17-P			Into, Takeshi	WS26-01-P
	WS18-10-P	Hitomi, Kiyotaka	WS27-02-P			Inui, Masanori	WS06-12-P
	WS26-07-O/P	Hitomi, Yuki	WS18-06-O/P	I. Nakayama, Keiichi	WS13-07-O/P		WS06-14-P
	WS26-12-O/P	Hiwa, Ryosuke	WS25-08-P	Ichihara, Yoshinori	WS18-19-P	Inui, Masanori	WS12-14-P
Hayashi, Akio	WS21-07-P	Hiyoshi, Hirotaka	WS28-12-P	Ichikawa, Tomoko	WS19-22-P	Inui, Seina	WS23-19-P
Hayashi, Rinako	WS03-07-O/P		WS28-13-O/P	Ichikawa, Tomonaga	WS02-13-P	Inui, Takashi	WS27-11-P
Hayashi, Tomoya	WS11-15-O/P	Ho, Jasper	WS12-12-P		WS09-22-P	Inuki, Shinsuke	WS01-05-O/P
Hayashi, Yuka	WS12-07-O/P	Ho, Ping-Chih	S03-02	Ichikawa, Yoko	WS05-12-O/P	Irie, Atsushi	WS12-05-P
	WS17-01-O/P		WS08-05-O/P	Ichimaru, Koki	WS09-11-O/P		WS28-06-P
Hayashizaki, Koji	WS26-14-O/P		WS23-03-O/P	Ichimiya, Shingo	WS15-14-O/P	Irie, Emi	WS21-16-P
Hayday, Adrian	S01-01	Hojyo, Shintaro	WS11-17-O/P		WS22-04-O/P	Irie, Nobuko	WS01-10-P
He, Ka	WS02-05-P		WS22-05-O/P	Ichiyama, Kenji	WS07-10-P	Irisawa, Atsushi	WS18-12-P
	WS26-12-O/P	Hokaku, Mii	WS27-06-P	Idehara, Akiho	WS15-08-O/P	Ise, Marii	WS08-15-P
Hemmi, Hiroaki	WS18-08-O/P	Honda, Haruka	WS06-06-P	Idehara, Wakaba	WS27-06-P		WS10-03-O/P
	WS25-22-P		WS06-07-P	Idei, Akiko	WS20-12-P		WS25-19-P
	WS27-34-O/P	Honda, Hiroe	WS19-04-P	Iemitsu, Keigo	WS05-16-O/P	Ise, Wataru	WS01-12-P
Hewassa Gamage, Nadeesha Gayathri	WS06-04-P	Honda, Tetsuya	WS24-01-O/P		WS20-22-O/P		WS13-01-O/P
Hida, Shigeaki	WS24-12-P	Honda, Yoshitaka	WS12-15-O/P	Igarashi, Ami	WS17-17-P		WS13-03-P
Hidaka, Reiko	WS03-07-O/P	Honjo, Tasuku	WS09-11-O/P	Igarashi, Miki	WS11-04-P		WS13-14-O/P
	WS06-01-O/P		WS09-14-O/P		WS11-05-P		WS27-15-P
Hide, Michihiro	WS24-15-P		WS09-20-P	Igarashi, Ryuji	WS27-12-P	Iseki, Hachiro	WS05-03-P
Higashisaka, Kazuma			WS22-06-O/P	Iguchi, Takahiro	WS01-15-P	Iseki, Masanori	WS11-21-P
	WS27-03-P	Honjo, Tasuku	WS16-08-O/P	Iida, Ryuya	WS25-31-P		WS25-26-P
	WS27-06-P	Hori, Shohei	S14-03	Iida, Yuchi	WS02-03-O/P	Ishibashi, Airi	WS21-05-O/P
	WS12-15-O/P		WS01-04-O/P	Iijima, Yuta	WS02-16-O/P		A01-02
Hijikata, Atsushi	WS16-17-P		WS07-02-O/P	Ilioka, Takahide	WS15-22-O/P	Ishibashi, Mariko	WS02-07-P
Hikichi, Kazuma	WS06-06-P		WS08-04-O/P	Iizuka, Daisuke	WS05-07-O/P	Ishibashi, Osamu	WS27-11-P
Hikida, Masaki	WS06-07-P		WS14-07-O/P	Iizuka, Mana	WS10-07-P	Ishida, Koji	WS02-18-P
		Horii, Yumi	WS19-22-P	Iizuka-Koga, Mana	WS06-13-O/P	Ishida, Saeko	WS25-31-P
Hikosaka-Kuniishi, Mari	WS01-02-O/P	Horio, Eri	WS11-04-P	Ikawa, Tomokatsu	WS15-17-O/P	Ishida, Yasumasa	WS01-08-P
	WS01-16-P		WS11-05-P		WS03-08-O/P		WS14-05-O/P
Hikosaka-Kuniishi, Mari		Horiuchi, Yutaka	WS02-13-P		WS23-04-O/P	Ishida, Yuko	WS11-11-P
	WS11-19-P		WS09-22-P		WS23-15-P		WS11-13-P
Hiller, Michael	S05-05	Hornung, Veit	S08-02	Ikeda, Eriko	WS27-08-P		WS11-14-P
Hinay, Alfredo	WS12-13-O/P	Hosen, Naoki	S11-02	Ikeda, Kei	WS04-11-P		WS27-34-O/P
Hirahara, Kiyoshi	WS15-02-O/P	Hoshino, Tomohiro	WS24-05-O/P	Ikeda, Keigo	WS25-05-P	Ishido, Satoshi	WS21-18-P
	WS15-03-O/P	Hoshino, Yasunobu	WS18-04-O/P	Ikeda, Shin-ichi	WS24-07-O/P	Ishifune, Chieko	A01-01
	WS15-18-O/P	Hoshino, Yoshihiko	WS28-17-O/P	Ikeda-Ohtsubo, Wakako		Ishigaki, Hirohito	WS22-19-P
		Hoshino, Yuki	WS09-12-P		WS28-05-P	Ishigaki, Kazuyoshi	S09-03
Hirai, Go	WS01-06-O/P		WS27-25-P	Ikegami, Ippei	WS15-14-O/P		WS18-06-O/P
Hirai, Toshiro	WS13-09-O/P	Hoshino, Yuuki	WS23-17-P		WS22-04-O/P	Ishigami, Akiko	WS11-14-P

Ishihara, Tomohiro	○WS17-16-P	Ito, Taiki	WS01-13-P	J	Kamada, Nobuhiko	WS04-09-P
Ishii, Asami	○WS25-15-P	Ito, Takashi	WS18-25-P		Kamata, Nanami	WS01-13-P
	WS25-17-P	Ito, Takeshi	WS04-16-P			○WS28-17-O/P
Ishii, Ken	WS11-15-O/P	Ito, Tomoka	○WS05-12-O/P		Kamatani, Takashi	WS11-10-O/P
Ishii, Masaru	WS04-13-O/P	Ito, Toshihiro	WS03-13-O/P			WS26-04-O/P
	WS19-02-P		WS16-11-O/P		Kamatani, Tomoki	○WS14-14-P
	WS27-04-O/P		WS20-02-P		Kametani, Yoshie	WS09-12-P
	WS27-05-O/P		WS20-03-P			WS23-17-P
Ishii, Naoto	WS01-02-O/P		WS20-18-P			WS27-25-P
	WS01-16-P		WS27-07-P		Kamijo, Seiji	○WS24-03-O/P
	WS15-13-O/P	Ito, Toshihiro	WS03-14-O/P	K	Kaminaga, Kiichi	WS27-12-P
	WS18-01-P	Ito, Yoshiaki	WS23-01-P		Kaminuma, Osamu	WS24-09-P
	WS22-11-P	Ito, Yoshinaga	○OT14			WS25-20-P
Ishii, Satoshi	WS05-11-P	Ito, Yuki	○WS21-04-O/P		Kamioka, Hiroshi	WS11-07-P
Ishii, Sawa	WS13-04-O/P	Ito, Yuma	WS24-12-P		Kamioka, Yuji	WS10-11-P
Ishii, Tomoko	WS09-10-O/P	Ito, Yusuke	WS23-07-O/P			○WS10-12-P
Ishii, Yoshie	WS11-01-O/P	Itoh, Yasushi	WS20-12-P		Kamiyama, Naganori	WS11-12-P
Ishikawa, Eri	○WS10-04-O/P		WS22-19-P		Kamoshida, Go	WS26-03-P
	WS13-06-P	Itoh-Nakadai, Ari	○WS13-10-O/P		Kan, Ka	WS21-16-P
Ishikawa, Hiroki	○WS26-13-P	Itoi, Hiroyuki	○WS21-07-P		Kanai, Takanori	WS21-16-P
Ishikawa, Saki	○WS20-02-P	Ito-Kureha, Taku	WS22-20-P	K		WS21-17-P
Ishimaru, Keiso	WS05-17-P	Ito, Hiroshi	WS20-13-O/P		Kanameishi, Shuto	S12-01
Ishimaru, Minori	WS22-13-P	Iwabuchi, Sadahiro	WS18-08-O/P			WS05-05-P
Ishimaru, Naozumi	WS14-03-O/P		WS26-07-O/P		Kanamori, Akiko	WS27-25-P
	WS25-15-P	Iwahashi, Yuya	WS11-13-P		Kanari, Ryotaro	WS24-13-P
	WS25-17-P	Iwai, Satoru	WS12-10-P		Kanaseki, Takayuki	WS16-03-P
	WS25-18-P		WS28-09-P		Kanayama, Masashi	○WS19-01-O/P
Ishimoto, Hitoshi	WS09-12-P		WS28-19-O/P			WS25-22-P
	WS23-17-P		WS28-20-P		Kanazawa, Nobuo	WS25-22-P
	WS27-25-P	Iwai, Yoshiko	WS03-10-P		Kanda, Yasuhiro	○WS02-09-P
Ishiwada, Naruhiko	WS05-15-P		WS18-18-P	K	Kaneko, Hitomi	WS25-07-P
Ishiyama, Kohei	WS07-06-O/P		WS27-24-P		Kaneko, Shin	WS09-10-O/P
Ishizu, Akihiro	WS14-10-P	Iwakura, Yoichiro	WS20-01-P		Kaneko, Takeshi	○WS04-13-O/P
Islam, Nuzat Tabassum	○WS03-12-O/P	Iwama, Mizuho	WS25-30-P		Kanekura, Takuro	WS11-06-P
	WS27-11-P	Iwamori, Miki	WS14-08-P		Kanesaka, Yuki	WS19-15-O/P
Islam, Zohirul	WS26-13-P	Iwamura, Chiaki	WS15-02-O/P		Kang, Sujin	WS04-15-P
Isozaki, Takeo	WS26-13-P		○WS15-03-O/P		Kanie, Keitaro	WS09-10-O/P
Itahara, Masao	○WS23-16-O/P		WS15-18-O/P		Kanno, Atsuo	WS18-21-P
Itakura, Shoko	WS10-10-O/P	Iwano, Satoshi	WS25-30-P		Kanno, Toshio	WS22-08-P
Itamiya, Takahiro	WS25-23-O/P	Iwanuma, Aoba	○WS12-10-P			○WS22-17-P
Itaya, Riho	WS01-16-P		WS28-09-P	K		WS26-14-O/P
Ito, Akihiko	WS14-05-O/P		WS28-19-O/P		Kano, Kuniyuki	WS05-11-P
Ito, Ayumi	WS21-11-O/P		WS28-20-P		Kano, Norisuke	WS19-07-O/P
	WS21-13-P	Iwasaki, Kenta	WS06-12-P		Kano, Shunka	WS15-22-O/P
Ito, Emi	WS01-05-O/P		○WS07-06-O/P		Kant, Anita	WS15-19-O/P
Ito, Isao	WS01-09-P	Iwasaki, Norimasa	WS12-18-P		Kanuka, Hirotaka	WS28-01-O/P
	WS20-14-P	Iwasaki, Takeshi	WS14-02-O/P		Kao, Kung-Chi	○WS08-05-O/P
	WS20-20-P	Iwasaki, Yukiko	WS13-12-P		Kao, Patrick	○WS20-17-P
Ito, Jumpei	WS12-13-O/P	Iwasaki, Norimasa	WS19-09-O/P		Karasuyama, Hajime	WS17-02-O/P
	WS20-29-O/P	Iwata, Chieri	WS11-19-P		Kasai, Kaichi	WS12-01-P
Ito, Junya	WS17-02-O/P	Iwata, Mina	WS24-11-P	K		WS12-02-P
Ito, Kentaro	WS26-17-P	Iwata, Naoya	WS12-15-O/P			WS19-04-P
Ito, Kotaro	○WS21-17-P	Iwata, Yohei	WS11-01-O/P			WS19-05-P
Ito, Masahiro	WS28-12-P	Iwatsuki, Ken	WS21-01-P			○WS22-12-P
Ito, Miho	○WS19-04-P	Iyoda, Masayuki	WS26-13-P		Kasai, Kenji	WS06-14-P
Ito, Minako	WS06-13-O/P	Izawa, Kazushi	WS12-15-O/P		Kasamatsu, Jun	○WS27-37-O/P
	WS15-17-O/P		WS26-04-O/P		Kase, Naoya	WS18-11-P
	WS15-20-O/P	Izawa, Kumi	WS05-18-P			WS22-13-P
	WS17-10-P		WS18-14-O/P			WS24-13-P
	WS18-26-P		○WS24-04-O/P		Kashima, Sei	WS28-14-O/P
	WS24-17-P		WS24-08-O/P	K	Kashima, Soki	○WS09-02-P
	WS26-06-P		WS27-36-O/P			WS16-04-P
Ito, Mitsuki	WS21-11-O/P	Izawa, Takashi	○WS11-07-P		Kashima, Yukie	WS12-13-O/P
	○WS21-13-P	Izumi, Yoshihiro	WS14-02-O/P		Kashiwakura, Jun-ichi	WS13-05-P
Ito, Naoto	WS27-28-P		WS18-14-O/P			WS16-09-P
Ito, Nobutoshi	WS06-04-P				Kasuga, Yusuke	WS27-08-P
Ito, Rinka	○WS13-08-P				Kasuya, Yuzo	WS27-08-P
Ito, Shiori	WS14-08-P				Katagiri, Mikako	WS05-11-P

Katahira, Yasuhiro	WS11-04-P		○WS20-11-O/P	Kinoshita, Yuri	WS25-15-P	Kobayashi, Koichi S.	WS16-12-P
	WS11-05-P	Kawano, Shintaro	WS08-06-O/P		○WS25-17-P	Kobayashi, Maiko	WS13-10-O/P
Katakai, Tomoya	WS02-09-P	Kawano, Yohei	○WS03-11-P	Kishi, Hiroyuki	WS20-10-O/P	Kobayashi, Mizuki	WS16-04-P
	WS10-13-P	Kawasa, Ken	WS07-06-O/P	Kishi, Mizuki	○WS25-27-O/P	Kobayashi, Reo	○WS26-10-O/P
	WS13-02-P	Kawasaki, Junna	WS20-29-O/P	Kishikawa, Sari	WS12-10-P	Kobayashi, Takaaki	WS07-06-O/P
Katano, Ikumi	WS02-03-O/P	Kawase, Takakazu	S11-04		○WS28-09-P	Kobayashi, Takashi	WS11-12-P
	○WS25-29-P	Kawashima, Hiroto	WS20-26-P		WS28-19-O/P	Kobayashi, Tetsuro	○WS05-03-P
Kataoka, Koki	WS05-05-P	Kawashima, Miharuru	WS07-13-P		WS28-20-P		WS28-01-O/P
Kataoka, Mirei	○WS23-07-O/P		○WS17-11-P	Kishimoto, Kentaro	WS27-21-P	Kobayashi, Tetsuya	WS01-19-P
Kato, Azusa	WS27-17-P		WS17-12-P	Kishimoto, Megumi	WS05-11-P	Kobayashi, Yuka	○WS10-14-P
Kato, Hiroki	○S08-03	Kawata, Kazuhiko	○WS06-03-O/P	Kishimoto, Tadimitsu	WS04-15-P		WS16-15-P
	WS05-02-P		WS13-06-P	Kita, Hirohito	WS24-11-P	Kobiyama, Kouji	WS11-15-O/P
Kato, Kentaro	○WS26-04-O/P	Kawazoe, Mio	WS15-20-O/P	Kita, Shunsuke	WS14-08-P	Kobori, Hajime	○WS23-13-P
Kato, Kiyoko	WS14-02-O/P	Kayama, Hisako	WS21-07-P		WS20-07-O/P	Kobune, Masayoshi	WS22-04-O/P
Kato, Miyuna	○WS12-02-P	Kayo, Hiroyuki	○WS03-01-P		WS20-09-P	Kodama, Toshio	WS28-13-O/P
Kato, Soichiro	○WS18-18-P	Kazemi, Dina	WS03-02-P	Kita, Yasuyuki	WS22-14-P	Koga, Marina	WS08-06-O/P
Kato, Takashi	WS18-08-O/P	Kazuki, Kanako	WS18-19-P	Kitabatake, Masahiro		Koga, Michiko	WS20-11-O/P
	WS27-34-O/P	Kazuki, Yasuhiro	WS01-03-O/P		○WS03-13-O/P	Koga, Risako	WS08-06-O/P
Kato, Takayuki	WS01-06-O/P		WS13-08-P		WS03-14-O/P	Koga, Satoshi	○WS11-03-O/P
	WS01-13-P		WS18-19-P		WS16-11-O/P		WS21-15-O/P
Kato, Tamotsu	WS21-11-O/P	Kearney, Bradley	WS27-17-P		WS20-03-P		○A02-02
	WS21-14-P	Kearney, Bradley M.	WS19-17-P		WS20-18-P	Kogame, Toshiaki	WS13-13-O/P
Kato, Yuki	WS25-25-O/P	Keen Sheng, Jason Wong			WS27-07-P	Kohda, Chikara	WS26-13-P
Kato, Yuma	WS23-16-O/P		○WS16-01-P	Kitada, Ayako	WS24-16-P	Kohjimoto, Yasuo	WS11-13-P
Katoh, Kazutaka	WS01-07-P	Keishi, Fujio	○C01		WS25-01-P	Kohyama, Masako	WS01-12-P
Katsikis, Peter	WS11-15-O/P	Khakpoor, Atefeh	WS03-02-P	Kitahara, Tatsunori	WS27-20-P	Koike, Eriko	WS27-13-O/P
Katsumata, Toru	WS16-06-O/P	Khan, Mouna	WS04-16-P	Kitahata, Kosuke	○WS15-05-O/P	Koike, Takuya	WS13-14-O/P
Katsuya, Nozomi	WS03-11-P		WS18-25-P	Kitajima, Yasuo	WS03-11-P	Koishi, Ryotaro	WS24-01-O/P
Kawabe, Takeshi	WS15-13-O/P		WS20-19-P	Kitajima, Masayuki	○WS08-19-P	Koizumi, Shin-ichi	WS27-15-P
	WS18-01-P	Khatrri, Robin	WS25-13-O/P	Kitamoto, Sho	WS04-09-P	Kojima, Hidefumi	○WS08-17-P
	WS22-11-P	Khobreakar, Noopur	WS12-16-O/P	Kitamura, Daisuke	WS06-09-O/P		WS18-12-P
Kawabe, Tsutomu	WS07-13-P	Kidoya, Hiroyasu	WS09-06-P		WS13-15-P	Kojima, Hirotatsu	WS13-07-O/P
	WS17-11-P	Kijima, Takashi	WS09-19-P		WS26-14-O/P	Kojima, Mayuki	WS24-04-O/P
	WS17-12-P	Kikuchi, Osamu	WS23-20-P	Kitamura, Hidemitsu	WS17-13-P	Kojima, Shohei	○S02-03
Kawada, Manabu	WS26-07-O/P		WS27-38-P		WS22-15-P	Komabayashi, Umi	WS22-04-O/P
Kawada, Shoji	WS25-14-O/P	Kikuchi, Sumire	○WS27-05-O/P		WS27-26-P	Komatsu, Noriko	○S10-03
Kawagishi, Hirokazu	WS23-13-P	Kikuchi, Taisei	WS28-02-P	Kitamura, Yuya	WS18-01-P	Komatsu, Toshihiro	WS16-07-O/P
Kawagoe, Suzu	S14-03	Kikuta, Junichi	WS04-13-O/P	Kitaoaka, Koji	WS09-11-O/P	Komatsu-Fujii, Takayoshi	
Kawaguchi, Mariko	WS11-11-P	Kim, Hyunsoo	○WS17-03-O/P	Kitaura, Jiro	WS07-12-P		WS13-13-O/P
Kawahara, Eigo	○WS20-31-P	Kim, Yeaji	○WS02-02-P		WS18-14-O/P	Kometani, Kohei	WS13-03-P
Kawahara, Shinya	WS08-07-O/P	Kim, Yun-Gi	WS03-04-P		WS24-04-O/P		○WS20-28-P
Kawahara, Shoya	○WS13-05-P		WS28-12-P		WS24-14-P		WS27-29-P
	WS18-03-P	Kimura, Akihiko	WS11-14-P		WS27-36-O/P	Komiya, Hiromi	WS12-07-O/P
Kawahara, Yukio	WS25-25-O/P	Kimura, Hiroshi	WS19-18-P	Kitaura, Jiro	WS05-18-P	Komiya, Kazuma	○WS02-01-P
Kawai, Kenji	WS25-29-P	Kimura, Kimitoshi	WS18-05-P		WS24-08-O/P	Komori, Satomi	WS27-32-P
Kawai, Manabu	WS16-14-P	Kimura, Meiko	WS05-18-P	Kitazawa, Yusuke	WS10-09-P	Konagaya, Tomohiro	WS22-13-P
Kawai, Shingo	WS05-14-O/P		WS24-08-O/P		WS18-12-P	Kondo, Airi	WS04-02-O/P
Kawai, Taro	○OT08	Kimura, Motoko	○S01-02	Kitoh, Akihiko	WS14-06-O/P		○WS04-10-P
	WS19-07-O/P		WS15-22-O/P		WS15-11-P	Kondo, Hiroyuki	WS15-06-O/P
Kawajiri, Akihisa	WS15-13-O/P	Kimura, Rino	WS22-14-P		○WS17-07-O/P	Kondo, Kenta	○WS08-03-O/P
Kawakami, Eiryo	WS15-02-O/P	Kimura, Ryouken	WS22-07-O/P	Kitoh, Akihiko	WS05-01-O/P	Kondo, Kohei	WS01-08-P
Kawakami, Ryoji	WS24-11-P	Kimura, Shunsuke	○WS05-14-O/P	Kiuchi, Masahiro	○WS15-02-O/P	Kondo, Motonari	WS08-15-P
Kawakami, Taiko	○WS19-13-P	Kimura, Takashi	WS23-15-P		WS15-18-O/P		WS10-03-O/P
Kawakami, Teruhisa	WS17-13-P	Kimura, Uki	○WS28-14-O/P	Kiuchi, Yusei	WS24-11-P		WS25-19-P
Kawamoto, Eiji	WS26-18-P	Kimura, Yoshitaka	○WS05-10-P	Kiyofune, Taiga	WS22-13-P	Kondo, Naoyuki	○WS01-11-P
Kawamoto, Hiroshi	S05-01	Kinashi, Tatsuo	WS01-11-P	Kiyono, Hiroshi	WS05-15-P		WS10-11-P
	○S11-04		WS10-11-P		WS05-16-O/P	Kondo, Ryohei	○WS01-08-P
	WS03-07-O/P		WS10-12-P	Kiyono, Hiroshi	WS26-19-P	Kondo, Takayuki	WS18-05-P
	WS04-07-P	Kinjo, Yuki	WS26-14-O/P	Kiyoura, Yusuke	WS11-22-P	Kondo, Toshikazu	WS11-11-P
	WS06-01-O/P	Kinoshita, Jyotaro	WS20-16-P	Kliszczak, Anna E	WS20-09-P		WS11-13-P
	WS06-02-O/P	Kinoshita, Kyohei	○WS01-19-P	Ko, Seyong	○WS21-19-P		WS11-14-P
	WS10-14-P	Kinoshita, Manabu	WS15-12-O/P	Koay, Fern	○S01-03		WS27-34-O/P
	WS15-11-P		WS19-16-P	Kobashi, Keiji	WS09-16-P	Kondo, Yuya	WS04-02-O/P
	WS16-15-P		WS19-17-P	Kobayashi, Kaho	○WS27-11-P		WS04-10-P
	WS23-10-P		WS27-17-P	Kobayashi, Koichi	WS01-17-P		WS24-16-P
	WS23-16-O/P	Kinoshita, Naohiko	○WS15-01-O/P		WS16-09-P		WS25-01-P
Kawamura, Koji	WS02-01-P	Kinoshita, Shota	○WS23-02-P		WS16-10-O/P		WS25-02-O/P
Kawana-Tachikawa, Ai			WS23-14-P		WS20-17-P	Kondoh, Gen	WS04-01-O/P

	WS05-04-O/P	Kurihara, Toshihide	WS24-07-O/P	Lin, Waka	WS27-31-P		S09-05
	WS11-18-O/P	Kuriki, Yuhi	○WS16-17-P	Lin, Youwei	○WS14-13-P		WS08-04-O/P
Konno, Toshihiro	WS09-06-P	Kurita, Koki	WS02-12-P	Liu, Kaiwen	○WS11-15-O/P	Maruta, Hikari	○WS21-12-O/P
Kono, Hajime	WS05-10-P	Kuroda, Etsushi	WS11-02-P	Liu, Shih-Jen	WS02-15-P	Maruyama, Junichi	WS13-12-P
Kontani, Kenji	WS25-12-P		WS11-10-O/P		○WS20-25-P	Mashimo, Shuhei	WS10-03-O/P
Korogi, Yohei	WS27-35-O/P		WS22-18-P	Liu, Tongxin	WS19-14-P		WS25-19-P
Kosako, Hideki	○WS18-08-O/P	Kuroki, Kimiko	WS14-08-P	Liu, Yan	WS27-19-O/P	Mashimo, Tomoji	WS25-31-P
Koseki, Haruhiko	WS20-12-P		WS14-09-P	Liu, Yihan	○WS25-08-P	Masuda, Atsuko	WS05-17-P
	WS22-08-P		WS16-17-P	Liu, Yuen-Joyce	WS16-10-O/P	Masuda, Kyoko	WS23-16-O/P
Koseki, Ryota	WS20-15-P		WS19-10-P	Liu, Yunjiang	WS02-08-O/P	Masuno, Kazuhiko	WS23-13-P
Kotaki, Ayumi	WS02-18-P		WS20-07-O/P	Liu, Yuxiang	○WS27-09-P	Masuo, Yuki	WS04-16-P
Kotaki, Ryutarō	○OT07		WS20-09-P	Llamas-Covarrubias, Mara			WS15-02-O/P
Kotani, Joji	WS15-12-O/P		WS20-15-P		WS15-10-O/P		WS18-25-P
Kotani, Takenori	WS02-03-O/P	Kurosaki, Tomohiro	WS06-11-O/P	Llantuy-Aulestia, Marco			WS20-19-P
	WS27-32-P		WS13-14-O/P		WS05-05-P	Masuyama , Yuta	WS27-12-P
Kotani, Yui	○WS13-02-P	Kurosawa, Takero	WS16-06-O/P	Loh, Christina	WS14-11-P	Mataki, Momo	WS02-13-P
Kouda, Hiroto	○WS17-05-O/P	Kurosu, Masaki	○WS01-01-O/P		WS23-06-P		WS09-22-P
Kouwaki, Takahisa	○WS12-09-O/P		WS23-11-O/P	Lomas, Woodrow	WS03-01-P	Matangkasombut, Ponpan	
Kouyama,, Kenichi	WS20-04-P	Kusamori, Kosuke	WS10-10-O/P	Low, Jing Hui	WS26-11-P		WS28-07-P
Koya, Richard	○WS23-09-P	Kusaoi, Makio	WS25-16-P	Low, Justin Jun Ting	WS16-02-O/P	Mathis, Diane	○S10-02
Koyasu, Shigeo	WS21-20-O/P	Kuse, Nozomi	○WS20-07-O/P	Lu, Dongyun	○WS01-09-P	Matozaki, Takashi	WS02-03-O/P
Kozai, Mina	WS08-02-O/P		WS20-09-P		WS20-14-P		WS27-32-P
Kozaki, Gohji	WS11-07-P	Kusumoto, Yutaka	WS21-03-O/P		WS20-20-P	Matsubara, Daiki	WS24-15-P
Kozuma, Yukinori	WS06-08-P	Kuwabara, Taku	WS08-15-P	Lu, Ruojing	WS16-02-O/P	Matsubara , Haruki	WS14-09-P
Krisnanda, Aga	○WS15-09-O/P		WS10-03-O/P	Lysenko, Artem	WS09-01-P	Matsuda, Kenshiro	WS05-08-P
Ku, Cheng-Lung	○T06		WS25-19-P		WS09-05-P		WS15-13-O/P
Kubo, Hiroyuki	WS02-14-O/P	Kuwata, Hirotaka	WS26-13-P		WS16-13-P	Matsuda, Masashi	WS20-12-P
Kubo, Masato	○OT15	Kuwata, Rei	○WS06-02-O/P	Lyu, Xiabing	WS22-07-O/P	Matsuda, Rina	WS08-12-P
	WS08-04-O/P	Kwon, Hyuk-kwon	WS19-21-P			Matsuda, Satoshi	WS11-20-P
	WS23-01-P						WS13-02-P
	WS26-14-O/P					Matsuda, Tadashi	WS13-05-P
Kubo, Satoshi	○S10-05						WS18-03-P
Kubota, Aki	WS09-19-P					Matsuda, Tsukasa	WS21-12-O/P
Kubota, Asako	○WS18-14-O/P	Lai, Yin Tung	○WS12-08-P	Ma, Jiao	○WS02-10-P	Matsuda, Yasuyuki	○WS26-03-P
Kubota, Kanae	WS16-07-O/P	Lambrecht, Bart	○S12-05	Ma, Shuhe	WS04-16-P	Matsuda, Yoshihiro	WS11-21-P
Kuchitsu, Yoshihiko	WS12-15-O/P	Lamkanfi, Mohamed	WS26-04-O/P		WS18-25-P	Matsuda, Yuzuki	WS07-13-P
Kudo, Takashi	WS07-05-O/P	Lanzavecchia, Antonio		Mabuchi, Tomotaka	WS27-25-P		WS17-11-P
Kueanjinda, Patipark	WS02-11-O/P		○S07-03	Machida, Kentaro	WS26-09-P		WS17-12-P
	WS19-18-P	Laosuk, Tuntikorn	○WS19-18-P	Machiyama, Hiroaki	○WS01-18-P	Matsuda-Lennikov, Mami	
Kuga, Taiga	WS25-16-P	Lareau, Caleb	○S02-05		WS01-20-P		WS22-21-P
Kumagai, Ryosuke	○WS08-10-P	Lee, Danyel	WS12-16-O/P	Machiyama, Hiroaki	WS16-16-P	Matsui, Ako	WS06-13-O/P
Kumanogoh, Atsushi	WS04-09-P	Lee, Kyoung-Hee	WS16-10-O/P	Maeda, Keiko	WS24-04-O/P		WS15-20-O/P
	WS04-13-O/P	Lee, Semin	○WS19-21-P	Maeda, Naoyoshi	WS16-17-P		WS18-26-P
	WS25-14-O/P	Lee, Wei Jin Amanda Crystal		Maeda, Shinji	WS18-24-P		WS24-17-P
	WS25-21-O/P		WS16-02-O/P		○WS25-09-P		WS26-06-P
Kumatabara, Riko	WS02-13-P	Lee, Yoonha	WS04-01-O/P	Maehara, Akie	WS24-04-O/P	Matsui, Miki	○WS27-01-P
	WS09-22-P		○WS05-04-O/P		WS27-36-O/P	Matsukawa, Akihiro	WS09-09-P
Kume, Yasuharu	WS05-18-P	Leung, Ping-Chung	WS09-17-P	Maehara, Takashi	WS08-06-O/P		WS23-08-O/P
	○WS24-08-O/P	Li, Chunning	WS09-09-P	Maenaka, Katsumi	WS14-08-P	Matsuki, Kyoko	○WS21-08-P
Kumode, Mina	WS08-03-O/P	Li, Hui	○WS15-06-O/P		WS14-09-P	Matsumoto, Hisatake	WS15-10-O/P
Kunimura, Kazufumi	WS05-09-P	Li, Huiyang	○WS17-04-O/P		WS16-17-P	Matsumoto, Isao	WS04-02-O/P
	○WS14-02-O/P	Li, Jiaxin	○WS09-01-P		WS19-10-P		WS04-10-P
Kuninaka, Yumi	○WS11-11-P	Li, Jing	WS15-13-O/P		WS20-07-O/P		WS24-16-P
	WS11-13-P		WS22-11-P		WS20-09-P		WS25-01-P
	WS11-14-P	Li, Jing	WS18-01-P		WS20-15-P		WS25-02-O/P
Kunisawa, Jun	WS05-16-O/P	Li, Mengqian	○WS27-29-P	Mahamed, Deeqa	WS15-19-O/P	Matsumoto, Keiji	○WS05-18-P
	WS18-09-O/P	Li, Quan-Zhen	WS06-11-O/P		WS23-06-P		WS24-08-O/P
	WS20-22-O/P	Li, Shihui	WS08-13-P	Maharani, Aprilia	WS15-15-O/P	Matsumoto, Ken	WS14-12-P
	WS24-01-O/P	Li, Stephen	WS23-06-P	Maki, Izumi	WS23-12-P	Matsumoto, Kenji	WS12-07-O/P
Kuno, Yoshihiro	WS26-13-P	Li, Wen	WS09-21-P		WS23-19-P		WS17-01-O/P
Kurachi, Makoto	WS08-11-P	Li, Xiaobing	○WS12-12-P	Mamiya, Mami I.	○WS15-11-P	Matsumoto, Kyohei	WS16-14-P
	WS08-13-P	Li, Xiao-Kang	WS07-09-P	Manabe, Sota	WS27-06-P	Matsumoto, Masanori	
	WS22-16-P	Liao, Chingwei	○WS03-05-O/P	Manabe, Yoshiyuki	WS09-12-P		WS27-35-O/P
	WS26-07-O/P	Liao, Hung-Chun	WS20-25-P		WS23-17-P	Matsumoto, Mirei	○WS17-14-P
Kurasawa, Kazuhiro	WS04-11-P	Lim, Liang	WS14-11-P	Mangin, Madison	WS15-07-O/P	Matsumoto, Runa	WS27-11-P
Kure, Yukie	WS20-16-P	Lin, Cedar	WS12-12-P	Manoharan, Thamizhanban		Matsumoto, Takehisa	WS20-12-P
Kureha, Taku	WS01-15-P	Lin, Qingshun	WS06-11-O/P		WS16-01-P	Matsumoto, Yoshiro	WS25-17-P
	○WS08-16-P	Lin, Qirong	○S02-01	Maruhashi, Takumi	S06-02	Matsumura, Ryutarō	WS07-01-O/P

Matsunaga, Hiroko	WS28-01-O/P	Miwa, Yuko	WS07-06-O/P	Mori, Shunsuke	○WS25-03-O/P	Motohashi, Shinichiro	
Matsune, Shoji	WS21-01-P	Miyadera, Hiroko	○WS17-18-P		WS25-14-O/P		WS23-18-O/P
Matsuo, Kazuhiko	WS15-09-O/P	Miyahara, Honoka	WS08-12-P	Mori, Shunsuke	WS04-04-O/P	Motoi, Yuji	WS18-21-P
Matsuo, Kazuhiro	WS08-02-O/P	Miyahara, Yoshihiro	WS16-06-O/P	Mori, Taiki	WS26-01-P		WS19-19-O/P
Matsuo, Tomohei	WS23-02-P	Miyajima, Michio	WS11-08-P	Mori, Takeshi	WS14-02-O/P		WS19-20-O/P
Matsuoka-Nakamura, Yumi		Miyakawa, Satomi	WS11-04-P		WS14-04-O/P	Motomura, Kenichiro	
	WS05-12-O/P		WS11-05-P	Mori, Yoji	WS16-17-P		○WS12-07-O/P
	WS05-13-O/P	Miyake, Kensuke	○S08-01		○WS19-10-P		WS17-01-O/P
Matsushima, Kouji	WS01-01-O/P		WS02-14-O/P	Mori Saitoh, Yoshiko	WS25-12-P	Motomura, Yasutaka	WS17-04-O/P
	WS20-18-P		○WS17-02-O/P	Morii, Eiichi	WS18-09-O/P		WS18-09-O/P
	WS23-11-O/P		WS18-21-P	Morimoto, Haruka	WS18-11-P		WS24-06-O/P
	WS27-18-P		WS19-19-O/P	Morimoto, Junko	WS18-17-O/P	Motooka, Daisuke	WS01-05-O/P
Matsushima, Miyoko	WS07-13-P		WS19-20-O/P	Morimoto, Keiko	○WS06-15-P		WS10-05-O/P
	WS17-11-P		WS25-12-P	Morimoto, Kohei	WS20-31-P		WS18-09-O/P
	WS17-12-P	Miyake, Sachiko	WS08-09-P	Morimoto, Motoko	○WS28-05-P	Motoyama, Yuto	WS27-06-P
Matsushita, Kazufumi			WS18-04-O/P	Morimoto, Ryo	○S05-02	Motozono, Chihiro	○WS20-10-O/P
	WS22-18-P	Miyake, Toshiya	WS05-07-O/P	Morimoto, Shinji	WS25-05-P	Mu, Jie	WS22-21-P
Matsushita, Koki	○WS25-07-P	Miyako, Keisuke	WS22-08-P	Morinaga, Yoshitomo	WS20-31-P	Mukai, Tomoyuki	WS11-21-P
Matsushita, Maiko	WS02-12-P		WS22-17-P	Morino, Kenji	○WS05-09-P		WS25-26-P
Matsuura, Yuko	WS27-38-P	Miyamae, Jiro	WS25-22-P		WS14-02-O/P	Mukaide, Naofumi	WS11-11-P
Matsuyama, Hiromi	○WS26-09-P	Miyamoto, Yu	WS19-02-P	Morinobu, Akio	○OT10		WS11-13-P
Matsuyama, Joey	○WS20-19-P	Miyao, Takahisa	WS07-04-O/P		WS04-01-O/P		WS11-14-P
Matsuyama, Nobuhiro			WS07-05-O/P		WS25-08-P	Mukainaka, Reina	○WS24-12-P
	WS28-14-O/P	Miyashita, Tomoko	WS25-16-P	Morio, Tomohiro	WS25-24-P	Mukoyama, Hiroki	○WS04-01-O/P
Matsuyama, Takahiro		Miyashita, Yusuke	○WS15-07-O/P	Morioka, Takamitsu	WS10-07-P		WS05-04-O/P
	WS26-09-P	Miyata, Kanjiro	WS14-02-O/P	Morita, Akimichi	WS15-10-O/P	Munemura, Ryusuke	WS08-06-O/P
Matsuzaka, Yasunari	WS26-13-P	Miyauchi, Hiromi	WS17-15-P	Morita, Daisuke	WS08-01-O/P	Murakami, Fumihito	WS11-04-P
Matsuzaki, Goro	WS27-14-P	Miyauchi, Kosuke	WS20-12-P	Morita, Hajime	WS04-16-P		WS11-05-P
Matsuzaki, Yumi	WS17-15-P		○WS20-21-P		WS18-25-P	Murakami, Kaoru	WS04-06-P
Matsuzawa, Kazuhiko			WS20-23-P		WS20-19-P		WS11-17-O/P
	WS18-19-P	Miyawaki, Atsushi	WS25-30-P	Morita, Hideaki	○OT12	Murakami, Kohei	WS25-22-P
Matsuzawa, Moe	WS05-18-P	Miyazaki, Kazuko	WS03-07-O/P		WS12-07-O/P	Murakami, Makoto	WS05-11-P
	WS24-08-O/P		WS06-01-O/P		WS17-01-O/P		WS19-12-O/P
Matsuzawa, Shigefumi			WS06-02-O/P	Morita, Masashi	WS01-02-O/P	Murakami, Mari	○S13-02
	○WS14-03-O/P	Miyazaki, Koichi	WS09-16-P		WS01-16-P		WS15-01-O/P
	WS25-18-P	Miyazaki, Masaki	WS03-07-O/P		WS11-19-P	Murakami, Masaaki	WS04-06-P
McGuire, Helen	WS03-02-P		WS06-01-O/P	Morita, Mika	WS20-31-P		WS11-17-O/P
Meissner, Torsten	WS16-10-O/P		WS06-02-O/P	Morita, Naoki	WS12-04-O/P		○T03
Meng, Fanyue	WS22-11-P	Miyazaki, Takuya	WS13-03-P		○WS13-07-O/P	Murakami, Ryuichi	S14-03
Merghoub, Taha	○S03-05	Miyazaki, Toru	WS12-11-O/P		WS18-13-P		○S14.3.2
Miake, Junichiro	WS18-19-P	Miyazawa, Mariko	WS09-12-P		WS21-09-O/P		WS01-04-O/P
Miao, Yuxuan	○S14-02		WS27-25-P		WS21-19-P		WS07-02-O/P
Middlebrook, Aaron	WS03-01-P	Mizoguchi, Izuru	WS11-04-P	Morita, Naoko	WS06-14-P		WS14-07-O/P
Mikami, Norihisa	WS24-11-P		WS11-05-P	Morita, Rimpei	WS02-07-P	Murakami, Shiori	WS17-08-O/P
Mikami, Yohei	WS21-16-P	Mizoguchi, Takumi	WS24-19-P		WS19-22-P	Murakami, Takashi	WS02-13-P
Miki, Haruka	WS04-02-O/P	Mizukami, Naoya	WS27-11-P		WS27-13-O/P		WS09-22-P
	WS04-10-P	Mizukoshi, Eishiro	WS08-13-P		WS27-20-P	Murakawa, Yasuhiro	○OT02
	WS24-16-P	Mizumura, Maki	WS28-01-O/P	Morita, Rimpei	WS21-01-P	Muramatsu, Tomoki	○WS27-31-P
	WS25-01-P	Mizumura, Rin	WS17-13-P	Morita, Satoru	○A02-03	Muramatsu, Wataru	○WS07-05-O/P
	WS25-02-O/P	Mizuno, Miho	WS08-09-P	Morita, Satoshi	○C03-01	Murata, Kenji	S03-01
Miki, Tsuyoshi	WS28-12-P	Mizushima, Ichiro	WS21-16-P	Moriwaki, Takashi	WS18-19-P		WS16-03-P
Mikita, Kei	WS19-16-P		WS21-17-P	Moriya, Shun	WS16-16-P	Murata, Yoji	WS02-03-O/P
Mikiya, Tsunoda	WS23-11-O/P	Mizutani, Eiji	WS01-03-O/P	Moriyama, Mizuki	WS03-11-P		WS27-32-P
Milicic, Anita	WS19-06-P	Mochizuki, Miho	WS05-03-P	Moriyama, Naoki	WS15-12-O/P	Murata, Teruasa	WS05-01-O/P
Minami, Fuuka	○WS05-06-O/P	Mochizuki, Misa	WS25-29-P	Moriyama, Saya	WS20-13-O/P	Muratani, Masafumi	WS07-05-O/P
	WS05-07-O/P	Mogi, Yusuke	WS20-16-P	Morizane, Shin	WS11-21-P	Murayama, Goh	WS25-16-P
Minowa, Tomoyuki	S03-01	Molofsky, Ari	○S12-02	Moro, Kazuyo	○S12-03	Murayama, Masanori	WS10-11-P
Mirkatouli, Fatemeh Beygom		Momose, Fumiyasu	○WS16-06-O/P		WS05-03-P	Murayama, Takumi	WS22-15-P
	○WS25-20-P	Moon, Hyunjin	○WS08-08-P		WS11-03-O/P		○WS27-26-P
Misawa, Takuma	○WS21-20-O/P	Mori, Ayaha	WS27-06-P		WS11-10-O/P	Muro, Ryunosuke	○OT01
Mise-Omata, Setsuko		Mori, Ayana	○WS21-11-O/P		WS17-04-O/P		WS01-15-P
	WS15-17-O/P		WS21-13-P		WS18-09-O/P		WS22-20-P
Mitoma, Shuya	WS02-06-P	Mori, Daichi	○WS21-06-P		WS21-15-O/P	Muto, Hideki	WS28-04-P
	WS27-22-P	Mori, Daiki	WS01-12-P		WS21-20-O/P	Muto, Manabu	WS27-38-P
	○WS27-23-P		WS13-03-P		WS24-06-O/P	Muto, Noriko	○WS04-12-P
Mitsuwaka, Ryoji	WS15-13-O/P	Mori, Kazuma	WS19-17-P		WS26-08-O/P		
	○WS18-01-P		WS27-17-P		WS28-01-O/P		
Miura, Kento	WS24-09-P	Mori, Mayumi	○WS19-15-O/P	Mostafa, Alshimaa	○WS05-01-O/P		

N

Nabekawa, Hideki	WS23-05-P	Nakahira, Masakiyo	WS11-02-P	Nakayama, Yukiteru	WS27-09-P		WS04-10-P
Nabekura, Tsukasa	WS05-08-P	Nakai, Takashi	WS16-06-O/P	Nakayamada, Shingo	S10-05	Nishiyama, Yasuhiro	WS21-01-P
Nabeshima, Kei	WS01-08-P	Nakai, Takuya	WS22-18-P	Nakayama-Hosoya, Kaori		Nishiyama, Junji	WS25-04-P
Nabeshima, Yo-ichi	WS19-15-O/P	Nakai, Wataru	WS07-07-O/P		WS20-11-O/P	Nitta, Takeshi	OT05
Nagae, Masamichi	WS01-06-O/P	Nakai, Yuji	WS08-17-P	Nakazaki, Hisataka	WS17-01-O/P		WS01-15-P
	WS01-13-P	Nakajima, Akira	WS07-02-O/P	Nakazato, An	WS27-19-O/P	Nitta, Takeshi	WS22-20-P
	WS18-14-O/P	Nakajima, Hiroshi	WS07-01-O/P	Nakazawa, Takuya	WS07-01-O/P	Nitta, Yuki	WS09-07-O/P
Nagafuchi, Ayame	WS06-13-O/P		WS27-15-P	Namiki, Kano	WS07-04-O/P	Nobumoto, Atsuya	WS06-10-P
Nagafuchi, Yasuo	WS25-23-O/P	Nakajima, Kazunori	WS06-15-P	Narita, Mio	WS10-05-O/P	Nogami, Keiji	WS03-14-O/P
Nagaharu, Keiki	WS16-06-O/P	Nakajima, Koji	WS12-16-O/P	Narita, Shintaro	WS16-04-P	Nojima, Masaki	WS25-16-P
Nagahata, Yosuke	S05-01	Nakajima, Mio	WS02-13-P	Nasu, Ryo	WS02-04-O/P	Noma, Karin	WS10-06-O/P
Nagai, Tomoko	WS28-20-P		WS09-22-P		WS15-22-O/P		WS23-15-P
Nagai, Yoshinori	WS12-01-P	Nakajima, Saeko	WS05-05-P	Natori, Takahiro	WS08-07-O/P	Nomoto, Takahiro	WS09-03-O/P
	WS12-02-P	Nakajima, Sotaro	WS04-03-O/P	Nawata, Akihiro	WS27-20-P	Nomoto, Yusuke	WS11-06-P
	WS19-04-P	Nakajima, Takuma	WS05-17-P	Negami, Airi	WS22-15-P	Nomura, Aneela	WS23-01-P
	WS19-05-P	Nakajima, Tatsuro	WS03-02-P		WS27-26-P	Nomura, Seitaro	WS05-11-P
	WS22-12-P	Nakajima, Yuka	WS22-06-O/P	Negami, Jun	WS01-16-P	Nomura, Takushi	WS01-10-P
Nagakawa, Hidetoshi	WS08-13-P	Nakajima-Adachi, Haruyo	WS24-05-O/P	Negishi, Hideo	WS11-15-O/P	Norman, Paul	S09-01
Nagano, Naoko	WS12-07-O/P	Nakakomi, Chizuru	WS24-13-P	Negishi, Kazuno	WS24-07-O/P	Nosaka, Mizuho	WS11-11-P
	WS17-01-O/P	Nakamizo, Satoshi	S12-01	Negishi, Naoko	WS07-12-P		WS11-14-P
Nagano, Sano	WS15-08-O/P		WS05-06-O/P		WS24-04-O/P	Noto, Daisuke	WS18-04-O/P
Nagano, Seiji	S11-04	Nakamura, Akihiro	WS02-13-P	Negishi, Yasuyuki	WS19-22-P	Nozaki, Chihiro	WS03-12-O/P
	WS23-10-P		WS09-22-P		WS21-01-P		WS12-06-P
Nagao, Jun-ichi	WS12-10-P	Nakamura, Hina	WS24-13-P	Negoro-Yasumatsu, Kanae		Nozu, Ryoko	WS25-29-P
	WS28-09-P	Nakamura, Junko	WS16-06-O/P		WS28-09-P	Numoto, Nobutaka	WS06-04-P
	WS28-19-O/P	Nakamura, Kazuhiro	WS27-38-P		WS28-20-P	Nuñez, Gabriel	WS27-35-O/P
	WS28-20-P	Nakamura, Kimitoshi	WS15-07-O/P	Nemoto, Masahiro	WS15-02-O/P	Nunngam, Ravipa	WS28-07-P
Nagao, Kei	WS24-02-O/P	Nakamura, Masahiro	WS27-36-O/P	Neo, Shi Yong	WS26-11-P	Nushrat, Nayeema	WS15-16-O/P
	WS24-10-P	Nakamura, Megumi	WS25-20-P	Nguyen, Thanh Nam			
Nagao, Ruka	WS14-03-O/P	Nakamura, Minoru	WS18-06-O/P		WS18-17-O/P		
	WS25-18-P	Nakamura, Risa	WS28-04-P	Nicolas, Manel	WS19-10-P		
Nagaoka, Fumiaki	WS06-14-P	Nakamura, Shigeki	WS20-02-P	Nimura, Koki	WS01-10-P	O'shea, John	S10-01
Nagaoka, Hitoshi	WS06-05-P		WS20-16-P	Ning, An	WS16-12-P	Oba, Kenji	WS03-10-P
Nagaoka, Koji	WS11-10-O/P	Nakamura, Shota	WS18-09-O/P	Nishida, Mikako	WS08-14-P	Obana, Shu	WS10-10-O/P
Nagaretnam, Ilamangai	WS14-05-O/P	Nakamura, Yutaka	WS05-14-O/P		WS09-15-O/P	Obuchi, Takaharu	WS26-06-P
Nagasawa, Takashi	WS02-09-P	Nakanishi, Haruka	WS24-05-O/P	Nishida, Ryo	WS20-19-P	Ochi, Hirofumi	WS18-05-P
	WS03-07-O/P	Nakanishi, Katsuhiro	WS19-11-P	Nishide, Masayuki	WS04-09-P	Oda, Akihisa	WS03-13-O/P
Nagashima, Ryuichi	WS08-10-P	Nakanishi, Yusuke	WS17-09-P		WS25-14-O/P		WS03-14-O/P
	WS26-13-P		WS19-13-P	Nishigori, Ryusei	WS18-05-P	Oda, Yoshinao	WS14-02-O/P
Nagata, Kazuki	WS17-05-O/P	Nakano, Kenta	WS19-19-O/P	Nishihama, Kota	WS04-14-O/P	Ogamino, Akina	WS28-02-P
	WS27-28-P		WS20-13-O/P	Nishijima, Hitoshi	WS26-05-P	Ogata, Sawako	WS24-09-P
	WS27-30-P	Nakano, Nobuhiro	WS24-04-O/P		WS01-18-P		WS25-20-P
Nagata, Keiko	WS18-19-P		WS24-14-P		WS01-20-P	Ogata, Yuichiro	WS11-01-O/P
Nagata, Masahiro	WS26-16-O/P		WS27-36-O/P	Nishikawa, Hiroyoshi	WS16-16-P	Ogawa, Chihiro	WS07-03-O/P
Nagata, Shiho	WS21-11-O/P	Nakao, Shintaro	WS05-18-P		S03-04		S06-04
Nagata, Yuka	WS17-08-O/P		WS24-08-O/P	Nishikawa, Makiya	WS10-10-O/P	Ogawa, Isamu	WS24-12-P
	WS17-16-P	Nakashiba, Toshiaki	WS25-30-P	Nishikimi, Akihiko	WS01-08-P	Ogawa, Mari	WS10-07-P
	WS17-17-P	Nakashima, Chisa	WS11-06-P	Nishikomori, Ryuta	WS26-04-O/P	Ogawa, Rei	WS27-13-O/P
Nagatake, Takahiro	WS13-07-O/P	Nakashima, Hiroyuki	WS19-17-P	Nishimura, Emi	WS19-20-O/P	Ogawa, Shuhei	WS22-13-P
	WS20-22-O/P		WS27-17-P	Nishimura, Hidekazu	WS20-01-P	Ogino, Takayuki	WS18-09-O/P
	WS24-01-O/P	Nakashima, Masahiro			WS20-06-P	Ogiwara, Haru	WS01-01-O/P
Nagayoshi, Yu	WS25-07-P		WS19-17-P	Nishimura, Katsuhiro	WS23-18-O/P		WS23-11-O/P
Naito, Taku	WS08-15-P		WS27-17-P	Nishimura, Luca	WS20-29-O/P	Ogiwara, Kenichi	WS03-14-O/P
	WS10-03-O/P	Nakashima, Ran	WS25-08-P	Nishimura, Yuji	WS04-07-P	Oguchi, Akiko	S02-04
	WS25-19-P	Nakashima, Yasuharu			WS15-11-P	Ogura, Atsuo	WS24-09-P
Naito, Tatsuhiko	WS25-21-O/P		WS08-07-O/P	Nishinakamura, Hitomi		Ogura, Hideki	WS21-18-P
Nakabayashi, Jun	WS27-19-O/P		WS16-14-P		S03-04	Ogura, Toshihiko	WS14-12-P
Nakadai, Kazuya	WS24-19-P	Nakatani, Yoichiro	WS16-14-P	Nishino, Ryohei	WS25-01-P	Oguri, Miki	WS07-13-P
Nakae, Susumu	WS17-01-O/P	Nakatsuka, Yoshinari			WS25-02-O/P		WS17-11-P
	WS17-14-P		WS27-35-O/P	Nishioka, Yujin	WS25-16-P		WS17-12-P
	WS18-23-P	Nakayama, Keiko	WS13-10-O/P	Nishitsuji, Kosuke	WS24-05-O/P	Ohara, Daiya	WS04-01-O/P
Nakagawa, Seitaro	WS05-12-O/P	Nakayama, Manabu	WS20-12-P	Nishiyama, Chiharu	WS17-05-O/P		WS05-04-O/P
Nakahama, Taisuke	WS25-25-O/P	Nakayama, Masafumi			WS27-28-P		WS11-18-O/P
Nakahashi-Oda, Chigusa			WS19-03-O/P		WS27-30-P	Ohara, Osamu	WS26-04-O/P
	WS15-13-O/P		WS27-21-P	Nishiyama, Mitsue	WS21-14-P	Ohara, Toshiaki	WS09-09-P
		Nakayama, Takashi	WS15-09-O/P	Nishiyama, Nobuhiro	WS09-03-O/P		WS23-08-O/P
		Nakayama, Toshinori	WS15-02-O/P	Nishiyama, Taihei	WS04-02-O/P	Ohashi, Michiko	WS25-14-O/P

O

Ohashi, Wakana	WS19-11-P	Okumura, Ko	WS07-12-P		WS20-03-P		WS14-11-P
Ohashi, Yukiko	WS20-08-P		WS24-03-O/P		WS20-18-P	Reinke, Sören	WS19-06-P
Ohba, Kouhei	WS08-09-P		WS24-04-O/P		WS27-07-P	Ronda, Carlotta	WS12-03-O/P
Oh-hora, Masatsugu			WS24-14-P	Oura, Takuma	WS09-20-P	Rong, Xingyu	○WS02-17-O/P
	○WS10-05-O/P		WS27-36-O/P	Ow, Ilisia	WS16-02-O/P	Rothenberg, Ellen V.	○S06-02
Ohgashi, Izumi	○OT06	Okumura, Ko	WS05-18-P	Owa, Mikito	WS13-03-P	Rousseau, Lorene	○WS23-03-O/P
Ohishi, Kanae	WS15-02-O/P		WS24-08-O/P	Owada, Ryuji	WS03-10-P	Rowland-Jones, Sarah	
	WS15-18-O/P	Okumura, Moe	WS27-03-P		WS18-18-P		WS20-15-P
Ohkawa, Yasuyuki	WS14-02-O/P	Okumura, Ryu	WS18-09-O/P		WS27-24-P	Ruiz Trillo, Iñaki	S05-01
Ohki, Kokoro	○WS22-05-O/P		WS21-04-O/P	Owada, Takayoshi	○WS04-11-P		
Ohki, Shun	WS03-11-P		WS21-05-O/P	Owaki, Atsuko	WS21-01-P		
Ohno, Hiroshi	○S13-01	Okumura, Yamato	○WS27-03-P	Oya, Yoshihiro	○WS07-01-O/P		
	WS21-11-O/P	Okuno, Yoshinobu	WS06-11-O/P	Oyama, Taiki	○WS26-15-P	Sachi, Nozomi	○WS11-12-P
	WS21-13-P	Okuyama, Kazuki	S06-04	Ozaki, Fumiko	○WS25-24-P	Sagara, Satoshi	○T07
	WS28-03-P		○WS22-01-O/P	Ozaki, Ko	WS23-18-O/P	Saijo, Shinobu	WS28-18-P
Ohno, Yoshiya	WS09-19-P		WS23-01-P	Ozawa, Idai	WS20-15-P	Saiki, Karen	WS28-14-O/P
Ohshima, Takeshi	WS27-12-P	Okuyama, Yuko	WS18-01-P	Ozawa, Madoka	WS02-09-P	Saito, Hirohisa	WS12-07-O/P
Ohta, Akio	WS22-06-O/P	Okuzaki, Daisuke	WS27-34-O/P		○WS10-13-P		WS17-01-O/P
Ohtake, Junya	WS17-13-P		WS28-13-O/P		WS13-02-P	Saito, Masafumi	○WS15-12-O/P
	WS22-15-P	Okuzumi, Ayami	WS08-09-P	Ozawa, Maki	WS05-02-P		WS19-17-P
	WS27-26-P	Omata, Yasunori	WS04-03-O/P	Ozawa, Manabu	WS18-07-P		WS27-17-P
Ohtani, Naoko	WS12-01-P	Omiya, Ryusuke	WS13-03-P	Ozawa, Yūsuke	○WS01-16-P	Saito, Mitsuru	WS16-04-P
Ohteki, Toshiaki	WS05-04-O/P	Omiya, Suguru	WS20-01-P		WS11-19-P	Saito, Risa	WS02-18-P
	WS11-18-O/P		WS20-06-P			Saito, Ryo	WS05-17-P
	WS19-01-O/P	Omori, Issei	WS05-11-P				WS24-15-P
	WS25-24-P	Omori, Ryo	WS05-18-P			Saito, Takashi	WS20-12-P
Ohya, Susumu	WS27-01-P		WS24-08-O/P			Saito, Tetsuya	WS04-08-P
Ohyagi, Masaki	○WS15-17-O/P	Onaga, Mai	WS11-15-O/P			Saito, Yasuyuki	WS02-03-O/P
Ohyama, Ayako	WS04-02-O/P	Onai, Nobuyuki	WS19-01-O/P	Paes, Wayne	WS20-09-P		WS02-16-O/P
	WS04-10-P	Ong, Jocelyn	WS26-11-P	Palaga, Tanapat	○WS02-11-O/P		○WS27-32-P
	WS24-16-P	Onishi, Uryo	○WS22-07-O/P		WS18-20-P		WS09-08-P
	WS25-01-P	Ono, Masahiro	WS01-10-P	Paluch, Chris	WS14-08-P	Saitoh, Shinichi	WS18-07-P
Oka, Kyoko	WS12-10-P	Ono, Takashi	WS25-17-P	Palumbi, Stefano	WS11-11-P	Saitoh, Shin-ichiroh	○WS25-12-P
Okabe, Yasutaka	○S13-05	Ono, Takeshi	○WS19-16-P		WS11-14-P		WS25-12-P
Okabe, Yuka	WS08-10-P		WS27-17-P	Panzer, Ulf	WS25-13-O/P	Saitoh (Mori), Yoshiko	
Okada, Koki	○WS18-23-P	Ono, Yuko	WS15-12-O/P	Park, Eun Jeong	○WS26-18-P		○WS18-07-P
Okada, Nanami	WS20-02-P	Onodera, Taishi	WS06-11-O/P	Parsotam, Nikesh	WS14-11-P	Sakaguchi, Naoki	WS16-07-O/P
Okada, Satoshi	○S07-01	Onodera-Amagai, Mayuko	WS05-02-P	Pasparakis, Manolis	WS26-16-O/P	Sakaguchi, Shimon	○S06-05
Okada, Wataru	○WS13-04-O/P		WS16-07-O/P	Pfister, Thomas	WS03-02-P		S14-04
Okada, Yukinori	WS25-21-O/P	Onoguchi, Kazuhide	WS16-07-O/P	Phankeaw, Pimchanok			WS07-10-P
Okamoto, Kazuo	WS18-14-O/P	Onoue, Kohsuke	○WS28-08-P		WS18-20-P		WS15-10-O/P
	WS22-16-P	Onsoi, Poramed	WS25-29-P	Pitikeattikul, Sukonlaphat		Sakaguchi, Taiki	WS21-08-P
Okamoto, Masaaki	WS11-12-P	Ootsuka, Iyo			WS18-20-P	Sakai, Kaori	WS13-03-P
Okamoto, Sachiko	WS23-12-P	Opasawatchai, Anunya	○WS28-07-P	Plunder, Steffen	WS18-16-O/P	Sakai, Takashi	○E01
	WS23-19-P		WS19-07-O/P	Pornsomboonsiri, Richtana		Sakai, Yuki	○S01-04
Okamura, Chieko	○WS06-11-O/P	Ori, Daisuke	WS13-05-P		WS28-07-P		WS01-06-O/P
Okamura, Hotaka	○WS27-28-P	Oritani, Kenji	○WS17-15-P	Potita, Panida	WS18-20-P		WS01-13-P
Okamura, Tadashi	WS18-08-O/P	Osakada, Sora	○S14-04	Priest, David	○WS13-01-O/P		WS01-05-O/P
	WS19-19-O/P	Osaki, Motonao	WS09-12-P		WS15-10-O/P	Sakamoto, Kei	WS11-21-P
	WS20-13-O/P	Oshima, Shino	WS23-17-P		WS15-16-O/P	Sakamoto, Yuma	○WS25-26-P
Okamura, Tomohisa	WS04-03-O/P		WS27-25-P	Pruksakorn, Vannakorn			○WS11-06-P
	WS25-23-O/P		WS01-03-O/P		WS18-20-P	Sakata, Daiji	WS05-04-O/P
Okamura, Tomotaka	WS20-24-O/P	Oshimura, Mitsuo	WS12-05-P			Sakatoku, Kazuki	WS11-18-O/P
	○WS20-27-P	Oshiumi, Hiroyuki	WS12-09-O/P				WS17-10-P
Okamura, Yo	○WS19-11-P		WS28-06-P			Sakaue, Takeru	○WS24-17-P
Okano, Tokuju	WS28-08-P		WS25-12-P				WS05-02-P
	○WS28-10-P	Ota, Yasunori	WS22-19-P	Qiao, Liang	WS03-02-P	Sakurai, Kazuki	○S07-04
Okano, Yuko	WS04-14-O/P	Otaki, Kenichi	WS16-18-P	Qin, Zhizhen	○WS22-10-P	Sallusto, Federica	○WS05-15-P
	WS26-05-P	Otao, Masahiro	○WS23-06-P	Qu, Ning	WS11-04-P	Salsabila, Korrie	WS06-15-P
Okazaki, Il-mi	S06-02	Otsu, Masahiro	WS14-03-O/P		WS11-05-P	Sano, Hitomi	○WS18-04-O/P
	S09-05	Otsuka, Kunihiro	WS25-18-P			Sano, Shuhei	○WS27-19-O/P
Okazaki, Taku	○S09-05		WS09-19-P			Sanpei, A	WS18-20-P
	WS08-04-O/P	Otsuki, Taiichiro	WS16-12-P			Saonanon, Preamjit	○WS15-18-O/P
Oki, Shinji	WS25-10-P	Ouda, Ryota				Sasaki, Atsushi	WS27-13-O/P
Okita, Miki	WS27-38-P	Ouji-Sageshima, Noriko				Sasaki, Fumiya	○WS27-20-P
Okumura, Akinori	WS06-14-P		WS03-13-O/P	Raman, Surabhi	○WS09-20-P		○WS27-20-P
Okumura, Ayane	WS09-18-P		WS03-14-O/P	Raveney, Ben	○WS18-02-P		WS18-08-O/P
Okumura, Genki	○A02-01		○WS16-11-O/P	Raza, Qanber	WS03-02-P		WS25-22-P

S

P

Q

R

	○WS27-34-O/P	Seki, Natsumi	○WS02-12-P		WS16-17-P	Suematsu, Ryohei	WS19-17-P
Sasaki, Kengo	○WS12-04-O/P	Sekiguchi, Takafumi	WS20-31-P	Shimokawa, Chikako		○WS27-17-P	
	WS18-13-P	Sekine, Yuya	WS16-04-P		○WS28-03-P	Sugai, Manabu	WS13-07-O/P
	WS21-09-O/P	Sekiya, Kouki	WS02-05-P	Shin, Eui-Cheol	○S07-02	Sugata, Kenji	WS01-10-P
Sasaki, Mio	WS27-36-O/P	Sekiya, Takashi	○WS07-11-P	Shin, Hee Soon	○WS24-18-P	Sugaya, Taiki	WS15-14-O/P
Sasaki, Naoto	WS15-09-O/P	Senda, Akiyoshi	WS05-06-O/P	Shin, Jay	WS26-11-P	Sugihara, Reiichi	WS25-25-O/P
Sasaki, So-Ichiro	WS02-05-P	Sengiku, Tomoya	○WS08-04-O/P	Shinagawa, Mayu	WS27-36-O/P	Sugihira, Takashi	WS05-13-O/P
	WS18-10-P	Setoguchi, Ruka	WS08-04-O/P	Shinagawa, Mayumi	WS10-07-P	Sugimoto, Hikaru	WS15-02-O/P
	WS26-07-O/P	Shang, Yi	WS10-07-P	Shinga, Jun	WS27-19-O/P	Sugimura, Ryo	○WS19-02-P
	WS26-12-O/P	Sharma, Ankur	WS03-02-P	Shinkura, Reiko	WS12-04-O/P	Sugiura, Daisuke	S06-02
Sasaki, Takashi	WS22-04-O/P	Sheng, Yangming	○WS12-05-P		WS13-07-O/P		S09-05
Sasaki, Yuto	WS18-03-P	Sheng, Yang Ming	WS28-06-P		WS18-13-P	Sugiura, Kazumitsu	WS11-01-O/P
Sasamura, Takako	WS22-19-P	Shevach, Ethan M	WS07-01-O/P		WS21-09-O/P	Sugiura, Yuki	WS14-02-O/P
Sasanuma, Hiroyuki	WS02-18-P	Shi, Jue	WS24-07-O/P		WS21-12-O/P	Sugiyama, Takashi	WS25-30-P
Sasaoka, Toshiyasu	WS11-19-P	Shibahara, Kyoko	WS24-05-O/P		WS21-19-P	Sugo, Noriyuki	WS08-03-O/P
Sasayama, Taiyo	WS10-02-O/P	Shibao, Ryohei	WS24-11-P	Shinnakasu, Ryo	WS13-03-P	Sumi, Masato	WS20-15-P
Sato, Atsuyasu	WS27-35-O/P	Shibasaki, Yasuhiro	○S05-04	Shinomiya, Ayana	○WS13-12-P	Sumida, Hayakazu	○WS05-11-P
Sato, Ayaka	○WS01-02-O/P	Shibata, Airi	○WS13-06-P	Shinsomboon, Chawisa		Sumida, Takayuki	WS25-02-O/P
	WS11-19-P	Shibata, Hirofumi	WS12-15-O/P		WS28-07-P	Sumiya, Eriko	WS26-10-O/P
Sato, Daigo	WS14-08-P	Shibata, Kensuke	WS01-05-O/P	Shinwari, Naila	WS01-09-P	Sumiyoshi, Mami	○WS11-20-P
Sato, Go	WS25-21-O/P	Shibata, Mahiro	○WS16-05-O/P		WS20-14-P		WS13-02-P
Sato, Hiromi	WS16-04-P	Shibata, Takehiko	WS20-02-P		WS20-20-P	Sumizaki, Ayumi	WS08-12-P
Sato, Hirotaka	WS04-16-P		WS20-16-P	Shinzawa, Yui	WS02-05-P	Sun, Xin	WS16-12-P
	WS18-25-P	Shibata, Takuma	WS19-19-O/P		WS08-13-P	Sunakawa-Kii, Mika	WS02-07-P
	WS20-19-P		○WS19-20-O/P		○WS26-07-O/P	Sunami, Ayana	○WS08-18-P
Sato, Katsuaki	WS02-06-P	Shibata, Wataru	○WS27-16-P	Shiokawa, Masahiro	WS18-13-P	Sunaoshi, Masaaki	○WS10-07-P
	WS02-14-O/P	Shibuya, Akira	WS05-08-P	Shiota, Naoki	○WS27-02-P	Suto, Yutaka	WS02-12-P
	WS27-23-P		WS15-13-O/P	Shirabe, Mina	WS18-12-P	Suwannavong, Apinya	
Sato, Katsuya	○WS06-05-P		WS23-02-P	Shirai, Harumi	WS25-23-O/P		WS18-20-P
Sato, Kayoko	○WS20-26-P		WS23-14-P	Shirai, Taiichiro	WS25-27-O/P	Suyama, Takashi	WS17-15-P
Sato, Kei	WS12-13-O/P	Shibuya, Kazuko	WS05-08-P	Shirai, Yuya	WS25-21-O/P	Suzuki, Chihiro	WS27-12-P
	WS20-29-O/P		WS23-02-P	Shiraishi, Koyomi	WS18-26-P	Suzuki, Harumi	WS08-19-P
Sato, Kosuke	○WS15-13-O/P		WS23-14-P	Shiraishi, Tsukasa	WS26-03-P	Suzuki, Hibiki	WS18-01-P
	WS18-01-P	Shibuya, Rintaro	WS14-06-O/P	Shirakashi, Mirei	WS25-08-P	Suzuki, Hiromu	○WS08-01-O/P
Sato, Rina	○WS18-11-P		WS17-07-O/P		○A01-03	Suzuki, Kazuhiro	WS25-27-O/P
Sato, Ryota	WS06-11-O/P	Shichino, Shigeyuki	WS16-14-P	Shirasaki, Yoshitaka	WS11-10-O/P	Suzuki, Kensuke	WS22-06-O/P
	○WS19-19-O/P		WS20-18-P		WS26-04-O/P	Suzuki, Masami	WS23-05-P
	WS19-20-O/P	Shichinohe, Shintaro	WS27-15-P	Shirato, Hiroki	WS09-16-P	Suzuki, Nobutake	WS11-10-O/P
	WS25-01-P	Shiga, Ryotaro	WS08-11-P	Shirato, Shotaro	○WS22-04-O/P	Suzuki, Ryo	WS17-16-P
	WS25-02-O/P	Shigehiro, Tsukasa	○WS23-04-O/P	Shirota, Masayuki	WS13-10-O/P		WS17-17-P
Sato, Shinichi	WS05-11-P		WS23-15-P	Shirouzu, Mikako	WS06-11-O/P	Suzuki, Ryo	WS17-08-O/P
Sato, Tadasu	WS19-14-P	Shigematsu, Katsunobu			WS20-12-P	Suzuki, Ryota	WS19-09-O/P
Sato, Takumi	○WS18-03-P		○WS05-08-P	Shizuku, Masato	WS07-06-O/P	Suzuki, Sayaka	WS02-01-P
Sato, Yuki	○OT04	Shigeoka, Toshiaki	WS01-08-P	Shoda, Hirofumi	WS25-23-O/P	Suzuki, Shiori	WS27-28-P
	○S04-02		WS14-05-O/P	Shoji, Sunao	WS23-17-P	Suzuki, Shunji	WS19-22-P
Sato, Yusuke	WS27-33-P	Shih, Ya-Fang	WS13-11-P	Shui, Yifang	WS07-09-P	Suzuki, Tadaki	WS20-13-O/P
Sato, Katsuaki	WS27-22-P	Shiina, Takashi	WS09-12-P	Sijin, Dawn	WS16-01-P	Suzuki, Takehiro	○WS04-09-P
Satoh-Takayama, Naoko			WS23-17-P	Singer, Alfred	○S01-05	Suzuki, Taro	○WS09-10-O/P
	WS11-15-O/P		WS27-25-P	Singer, Dinah	○WS22-21-P	Suzuki, Teruhiko	○WS01-03-O/P
	WS21-11-O/P	Shimada, Atsuko	WS05-17-P	So, Takanori	WS01-02-O/P	Suzuki, Toshihiko	WS28-08-P
	WS21-13-P	Shimada, Yoshiya	WS10-07-P		WS01-16-P		WS28-10-P
	WS21-14-P	Shimakata, Manami	WS24-13-P	So, Takanori	WS11-19-P	Suzuki, Tsuyoshi	WS20-01-P
Satooka, Hiroki	○WS18-22-P	Shimaoka, Motomu	WS21-02-P	Sobu, Ryuta	WS16-04-P		WS20-06-P
Satou, Yorifumi	WS01-10-P		WS26-18-P	Soga, Kohei	WS24-05-O/P	Suzuki, Yutaka	WS12-13-O/P
Sawa, Shinichiro	WS26-10-O/P	Shimizu, Akira	WS27-18-P	Sondergaard, Jonas	WS15-10-O/P		
	WS27-15-P	Shimizu, Daiki	WS23-18-O/P	Sone, Rikuto	WS02-13-P		
Sawagami, Kazumi	WS27-38-P	Shimizu, Kanako	WS20-08-P		WS09-22-P		
Sawano, Tatsuya	WS18-19-P		WS20-23-P	Song, Li-Ting	WS19-14-P		
Sawanobori, Yasushi			○WS27-19-O/P	Sonoda, Koh-Hei	WS01-05-O/P	Tabata, Hiroyuki	WS20-04-P
	○WS10-09-P	Shimizu, Kenji	S06-02	Sonoki, Takashi	WS18-08-O/P	Tabe, Kosuke	○WS09-12-P
	WS18-12-P		S09-05	Srirat, Tanakorn	○WS03-04-P	Tachibana, Akira	WS10-07-P
Schäfer, Yasmin Carvalho		Shimizu, Masaki	WS26-04-O/P	Standley, Daron	WS01-07-P	Tachibana, Naoko	WS21-11-O/P
	WS26-16-O/P	Shimizu, Masaru	WS25-01-P	Stuart, Tim	WS26-11-P		WS21-13-P
Sebata, Shuto	WS16-16-P	Shimizu, Masumi	WS27-13-O/P	Studer, Lorenz	WS12-16-O/P	Tachikawa, Natsuo	WS20-11-O/P
Segawa, Osamu	WS27-38-P		WS27-20-P	Su, Qi	○WS19-06-P	Tada, Hiroyuki	○WS19-14-P
Seino, Ken-ichiro	WS14-14-P	Shimoboji, Tsuyoshi	WS16-06-O/P	Su, Yu-Wen	○WS13-11-P	Tada, Yayoi	WS05-10-P
Seirin-Lee, Sungrim	WS18-16-O/P	Shimojo, Naoki	WS05-12-O/P	Suda, Wataru	WS18-02-P	Tadokoro, Takashi	WS20-15-P
	WS24-15-P	Shimokakimoto, Sakie		Sudo, Yu	WS22-14-P	Taguchi, Ayumi	WS15-16-O/P

T

Tabata, Hiroyuki	WS20-04-P
Tabe, Kosuke	○WS09-12-P
Tachibana, Akira	WS10-07-P
Tachibana, Naoko	WS21-11-O/P
	WS21-13-P
Tachikawa, Natsuo	WS20-11-O/P
Tada, Hiroyuki	○WS19-14-P
Tada, Yayoi	WS05-10-P
Tadokoro, Takashi	WS20-15-P
Taguchi, Ayumi	WS15-16-O/P

Taguchi, Jumpei	WS18-07-P		WS24-10-P		WS20-09-P		WS22-09-P
Taguchi, Tomohiko	WS12-15-O/P	Takamura, Shiki	WS15-05-O/P	Takimoto, Hiroaki	WS08-10-P		WS22-10-P
Tai, Yuki	WS13-03-P		WS23-01-P	Takita, Junko	WS26-04-O/P		WS23-01-P
	○WS13-14-O/P	Takano, Hiyori	WS07-13-P	Takizawa, Takumi	WS26-04-O/P	Tasaki, Sonoko	WS28-09-P
Taiki, Sakaguchi	WS18-09-O/P		WS17-11-P	Takuwa, Hiroyuki	WS27-12-P		WS28-19-O/P
Tajima, Hideji	WS27-38-P		○WS17-12-P	Tamada, Koji	○S11-01		WS28-20-P
Tajima, Lili	○WS21-16-P	Takano, Ken-Ichi	WS15-14-O/P		WS01-05-O/P	Tatekoshi, Ayumi	WS22-04-O/P
	WS21-17-P	Takao, Tomoaki	WS17-10-P	Tamai, Masakazu	○WS05-13-O/P	Tatematsu, Megumi	○WS17-06-O/P
Takaba, Hiroyuki	WS09-04-O/P	Takaoka, Akinori	WS05-04-O/P	Tamai, Riyoko	○WS11-22-P	Tateno, Hiroaki	WS05-08-P
Takada, Ayaka	○WS27-12-P	Takasaka, Ryosuke	WS01-05-O/P	Tamai, Toshikatsu	WS08-13-P	Tatsukawa, Hideki	WS27-02-P
Takada, Kensuke	○WS08-02-O/P	Takasuga, Shunsuke	WS17-06-O/P	Tamano, Ryutaro	WS12-04-O/P	Tayama, Shunichi	WS15-13-O/P
Takada, Shuji	WS17-01-O/P	Takata, Masaki	WS18-05-P		WS21-09-O/P		WS18-01-P
Takaesu, Giichi	○WS27-14-P	Takatsuka, Shogo	WS26-14-O/P	Tamari, Masato	WS12-07-O/P		WS22-11-P
Takagaki, Kiyoshi	○WS09-19-P	Takaya, Akiko	WS28-14-O/P		WS17-01-O/P	Tazawa, Hiromitsu	○WS27-38-P
Takagi, Hidekazu	WS06-14-P	Takayama, Kazuo	WS20-12-P	Tamechika, Shinya	○WS18-24-P	Temizoz, Burcu	WS11-15-O/P
Takagi, Koichi	WS26-09-P	Takayanagi, Hiroshi	WS01-15-P	Tamechika, Shin-ya	WS25-09-P	Tenno, Mari	○WS06-09-O/P
Takagi, Wataru	WS09-07-O/P		WS08-16-P	Tamura, Naoto	WS25-16-P		WS13-15-P
Takahagi, Shunsuke	WS24-15-P		WS09-04-O/P		○C05	Terada, Koji	WS23-16-O/P
Takahama, Michihiro			WS11-08-P	Tamura, Shinobu	WS18-08-O/P	Terasaki, Yasuhiro	WS27-18-P
	○WS28-15-P		WS22-20-P	Tanabe, Kano	○WS06-08-P	Terashima, Yuya	WS27-18-P
Takahama, Yousuke	○S06-01	Takayanagi, Taisuke	WS09-16-P	Tanabe, Yamato	WS08-11-P	Terui, Hitoshi	WS05-02-P
	WS22-21-P	Takazawa, Ikuo	WS04-03-O/P		WS08-13-P	Terukawa, Alaa	WS12-18-P
Takahara, Kazuhiko	WS26-15-P		○WS25-23-O/P		○WS22-16-P		○WS19-09-O/P
Takahashi, Akira	WS24-19-P	Takeda, Haruka	○WS15-21-O/P	Tanaka, Atsushi	S06-05	Terukawa, Hend	○WS12-18-P
Takahashi, Daisuke	WS21-12-O/P	Takeda, Junji	WS05-04-O/P	Tanaka, Ayae	WS04-11-P		WS19-09-O/P
Takahashi, Hironori	WS12-07-O/P	Takeda, Kazuyoshi	WS26-12-O/P	Tanaka, Hiroki	WS11-17-O/P	Thng, Steven	WS26-11-P
Takahashi, Hitoshi	WS20-26-P	Takeda, Kiyoshi	S13-02	Tanaka, Kentaro	WS26-09-P	Tian, Miao	○WS09-09-P
Takahashi, Ittetsu	WS27-31-P		WS15-01-O/P	Tanaka, Kotaro	○WS20-05-P		WS23-08-O/P
Takahashi, Keishu	WS12-04-O/P		WS18-09-O/P		WS20-30-P	Tobuse, Asuka	WS11-15-O/P
	WS18-13-P		WS19-11-P	Tanaka, Masato	WS11-10-O/P	Toda, Etsuko	WS21-01-P
	WS21-09-O/P		WS21-04-O/P	Tanaka, Sachi	WS17-13-P		○WS27-18-P
	WS21-19-P		WS21-05-O/P	Tanaka, Sakae	WS04-03-O/P	Toda, Masaaki	WS04-14-O/P
Takahashi, Kyoko	WS17-09-P		WS21-07-P	Tanaka, Shigeru	WS27-15-P		WS23-13-P
	WS19-13-P		WS21-08-P	Tanaka, Shusuke	○WS04-02-O/P		WS26-05-P
Takahashi, Manami	WS27-12-P	Takeda, Tomohiro	○T05		WS04-10-P	Toda, Shota	WS11-04-P
Takahashi, Masatomo		Takeda, Yuji	WS09-08-P	Tanaka, Sota	WS28-05-P		WS11-05-P
	WS18-14-O/P	Takegami, Tomoya	○WS05-05-P	Tanaka, Toshiyuki	WS09-19-P	Toda, Yuuka	WS08-06-O/P
Takahashi, Munetomo		Takeichi, Kaho	WS23-12-P	Tanaka, Tsutomu	WS16-09-P	Todo, Kagefumi	WS06-06-P
	WS23-11-O/P	Takeishi, Atsuki	WS01-17-P		○WS16-10-O/P		WS06-07-P
Takahashi, Riichi	WS23-05-P	Takekawa, Shogo	○WS14-08-P		WS16-12-P	Todo, Tomoki	WS02-14-O/P
	WS25-29-P	Takematsu, Makie	WS23-12-P		WS20-17-P	Togashi, Yosuke	○S03-03
Takahashi, Riku	WS02-18-P	Takenobu, Kakeru	○WS17-10-P	Tanaka, Yoshihiko	WS12-10-P	Togo, Kazuma	WS20-16-P
Takahashi, Risa	WS05-15-P		WS24-17-P		WS28-09-P	Tohyama, Kaoru	WS20-04-P
	○WS26-19-P	Takeshita, Atsuro	WS04-14-O/P		WS28-19-O/P	Tohyama, Yumi	○WS20-04-P
Takahashi, Ryosuke	WS18-05-P		WS26-05-P		WS28-20-P	Tokano, Mieko	WS02-13-P
Takahashi, Ryota	○WS22-19-P	Taketomi, Yoshitaka	WS05-11-P	Tanaka, Yuki	WS11-17-O/P		WS09-22-P
Takahashi, Satoru	WS03-05-O/P		WS19-12-O/P		WS16-07-O/P	Tokita, Serina	○WS16-03-P
	WS07-05-O/P	Takeuchi, Arata	WS01-18-P	Tanaka, Yukihisa	WS18-07-P	Tokoyoda, Koji	WS02-01-P
Takahashi, Sunao	WS08-09-P		WS01-20-P		WS25-12-P		WS13-04-O/P
Takahashi, Takehiro	○WS05-02-P		○WS16-16-P	Tanaka, Yuriko	WS08-15-P		WS15-08-O/P
Takahashi, Takeshi	WS02-03-O/P	Takeuchi, Fuka	WS14-05-O/P		WS10-03-O/P		WS22-05-O/P
	WS23-05-P	Takeuchi, Marina	○WS22-14-P		○WS25-19-P		WS27-27-P
Takahashi, Takuya	WS05-02-P	Takeuchi, Naoto	WS23-02-P	Tane, Misato	WS18-08-O/P		WS28-14-O/P
Takahashi, Toshiya	WS05-02-P		○WS23-14-P	Tanegashima, Kosuke		Tokuda, Nobuko	WS10-09-P
Takahashi, Wakana	WS13-04-O/P	Takeuchi, Osamu	○S08-05		○WS02-18-P		WS18-12-P
Takahashi, Yoshimasa			WS02-17-O/P	Tanemoto, Masanobu		Tokumar, Yosuke	○WS22-06-O/P
	○S15-04		WS03-03-O/P		○WS15-14-O/P	Tokumasu, Miho	WS08-14-P
	WS06-11-O/P		WS03-06-P	Tang Nguyen, Mai Trinh			WS09-15-O/P
	WS20-13-O/P		WS20-05-P		WS13-11-P	Tokunaga, Suzuka	○WS27-04-O/P
	WS26-14-O/P		WS20-30-P	Taniguchi, Ren	WS27-21-P	Tomaru, Utano	WS14-10-P
Takahashi, Takeshi	WS25-29-P		WS22-02-O/P	Tani-ishi, Nobuyuki	WS04-12-P	Tominaga, Keiichi	WS18-12-P
Takahiro, Tsuneshige	WS06-04-P	Takeuchi, Tadashi	WS28-03-P	Tanimoto, Hiromu	○WS12-17-P	Tominaga, Mitsutoshi	WS24-02-O/P
Takai, Tomoko	WS02-03-O/P	Takeuchi, Yusuke	WS04-01-O/P	Tanimura, Reona	WS25-01-P		WS24-10-P
	WS27-32-P		WS05-04-O/P		○WS25-02-O/P	Tomioka, Nanami	WS20-07-O/P
Takai, Toshiro	WS24-03-O/P	Takewaki, Daiki	WS18-02-P		○S06-04		WS20-09-P
Takai, Toshiyuki	WS13-10-O/P	Takeyama, Haruko	WS28-01-O/P	Taniuchi, Ichiro		Tomiya, Chikako	WS20-01-P
Takami, Mariko	WS23-18-O/P	Takezaki, Daiki	WS11-21-P		WS06-02-O/P	Tomiya, Kayo	WS25-29-P
Takamori, Kenji	WS24-02-O/P	Takiguchi, Masafumi	WS20-07-O/P		WS07-03-O/P	Tomizawa, Kazuhito	WS25-07-P
					WS22-01-O/P		

Tomizawa, Yuji WS18-04-O/P
Tomogane, Mako ○WS23-12-P
Tomono, Susumu WS06-12-P
WS06-14-P
WS07-06-O/P
WS12-14-P
○WS19-08-P
○WS21-03-O/P
Toratani, Kazunori ○WS03-06-P
Torigoe, Toshihiko ○OT03
S03-01
WS16-03-P
Torii, Naoya WS18-16-O/P
Tosuji, Hisanobu ○WS11-13-P
Toya, Syuji WS01-02-O/P
Toya, Takashi WS15-16-O/P
Toyama, Sumika WS24-02-O/P
WS24-10-P
Toyoda, Mako WS20-10-O/P
Toyohara, Eri ○WS27-13-O/P
Toyonaga, Kenji WS12-10-P
WS28-09-P
WS28-19-O/P
○WS28-20-P
WS01-20-P
Tsai, Pei-Ju WS13-11-P
Tsang, John ○S15-05
Tsevegjav, Bayarbat ○WS23-20-P
Tsubaru, Moeri S14-03
○WS14-07-O/P
Tsubata, Takeshi WS06-04-P
Tsuboi, Hiroto WS04-02-O/P
WS04-10-P
WS24-16-P
WS25-01-P
WS25-02-O/P
Tsubota, Kazuo WS24-07-O/P
Tsubota, Risa ○WS04-08-P
Tsuchida, Yumi WS25-23-O/P
Tsuchiya, Haruka WS04-03-O/P
WS25-23-O/P
Tsuchiya, Kohsuke WS09-06-P
WS26-02-O/P
Tsuchiya, Yuri ○WS08-12-P
Tsuda, Masato ○WS24-19-P
Tsuda, Masayuki WS06-10-P
Tsuiji, Makoto ○WS09-18-P
WS26-14-O/P
Tsuiji, Hideaki WS25-08-P
Tsuiji, Takumi WS24-11-P
Tsuiji, Yuki ○WS09-13-P
Tsujino, Hirofumi WS27-06-P
Tsukamoto, Hirotake WS08-12-P
WS09-21-P
WS23-20-P
Tsukazaki, Reiko ○WS01-04-O/P
Tsunematsu, Takaaki WS14-03-O/P
WS25-18-P
Tsuneto, Motokazu ○WS26-17-P
Tsuneyama, Koichi WS12-02-P
WS19-05-P
Tsunoda, Junya WS21-16-P
WS21-17-P
Tsunoda, Mikiya WS01-01-O/P
Tsunoda, Tatsuhiko WS09-01-P
WS09-05-P
WS16-13-P
Tsuru, Emi ○WS06-10-P

Tsurui, Ryosuke WS08-07-O/P
Tsuruoka, Chizuru WS10-07-P
Tsumi, Yasuo WS27-03-P
WS27-06-P
Tulyeu, Janyerkye WS15-10-O/P
Tumes, Damon J WS15-02-O/P

U

Uchibayashi, Midori WS05-05-P
Uchida, Moeko WS27-20-P
Uchida, Shumpei ○WS02-14-O/P
Uchino, Motoi WS21-18-P
Udaka, Keiko ○WS16-07-O/P
Udono, Heiichiro WS08-14-P
WS09-15-O/P
Ueda, Kenta ○WS13-15-P
Ueda, Ryuki WS23-04-O/P
Ueda, Shogo WS20-08-P
○WS20-23-P
Ueda, Yoshihiro ○WS10-11-P
Ueha, Rumi WS20-02-P
Ueha, Satoshi WS01-01-O/P
WS20-18-P
WS23-11-O/P
Uehara, Sami WS18-11-P
Uehata, Takuya WS03-06-P
Ueno, Hideki ○S07-05
WS01-09-P
WS04-04-O/P
WS04-16-P
WS12-15-O/P
WS15-02-O/P
WS18-05-P
WS18-25-P
WS20-14-P
WS20-19-P
WS20-20-P
Ueno, Takamasa WS20-10-O/P
Ueno, Tatsuya WS10-02-O/P
Ueta, Hisashi WS10-09-P
○WS18-12-P
Ulrichs, Peter ○C04-01
Umamoto, Eiji WS19-11-P
Umamura, Masayuki ○WS09-06-P
WS28-20-P
Umezawa, Natsuka WS04-08-P
Unita, Ryo WS21-18-P
Unno, Hiroaki WS20-29-O/P
Uno, Kazuko ○WS04-05-O/P
Uno, Shunsuke WS04-16-P
○WS18-25-P
WS20-19-P
WS24-11-P
○WS20-24-O/P
Ushio, Aya WS14-03-O/P
WS25-15-P
WS25-17-P
WS25-18-P
○WS12-13-O/P
○WS02-06-P
WS27-23-P
WS27-22-P
Utsunomiya, Makoto ○WS08-13-P
WS27-05-O/P
Uzawa, Narikazu

V

Vande Walle, Lieselotte WS26-04-O/P
Vijayan, Saptha WS16-10-O/P
Vilbois, Stefania WS23-03-O/P
Virakul, Sita ○WS18-20-P
Visamol, Sopita WS18-20-P
Vries, Rory de ○S15-03

W

Wachsmuth, Laurens WS26-16-O/P
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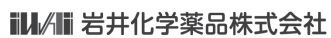
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